

O.K.

1921

MCGREGOR Aug

CLEAR LAKE Sep

MASON CITY Sep.

NATIONAL

NATIONAL



R. Shimek

Iowa City Iowa

Reward for return  
of this book!

KOSSUTH Co.

PALO ALTO Co.

CLAY Co.

OSCEOLA Co.

LYON Co.

JORDAN

BLAIR bridge

MARSHALL VALLEY

ADAMSON Co. SHELBY Co.

BAYFIELD

FRUITLAND

LIST OF PLANTS FOR SELECTED  
MCGREGOR PROGRAM.  
MCGREGOR PLANTS

| <u>Genus</u>       | <u>Species</u>           | <u>Cultivated</u> | <u>Native</u> |
|--------------------|--------------------------|-------------------|---------------|
| Sanguinaria        |                          | Daalis            | Anemone       |
| Hepatica           |                          | Gladiolus         | Croton        |
| Trillium           |                          | Narcissus         | Hepatica      |
| Hydrophyllum       |                          | Amaryllis         | Hydrangea     |
| Utricularia        |                          | Lobelia           | Lobelia       |
| Leptostoma         |                          | Canna             | Magnolia      |
| Limnanthes         | (blue)                   | Salvia            | Oxalis        |
| Polygonum          |                          | Cyclamen          | Phlox         |
| Amorpha (deformed) |                          | Verbena           | Lissonotus    |
| Catalpa            | (stems & petals twisted) | Clematis          | Spiraea       |
|                    |                          | Ageratum          | Gilia         |
|                    |                          | Spiraea           | Thlaspi       |
|                    |                          | Chrysanthemum     | Trillium      |
|                    |                          | Asparagus         | Yucca         |
|                    |                          | Astrililac        |               |
|                    |                          | Ayame             |               |
|                    |                          | Azalea            |               |
|                    |                          | Begonia           |               |
|                    |                          | Catappa           |               |
|                    |                          | Iris              |               |
|                    |                          | Rhododendron      |               |
|                    |                          | Winteria          |               |

Modified Scientific

|                             | <u>Specific Name</u>         |
|-----------------------------|------------------------------|
| Alyssum (sweet)             | japonica ( <i>Cydonia</i> )  |
| Phlox (Perennial)           | Oleander ( <i>Nerium</i> )   |
| Asparagus (Fern)            | Buckmire ( <i>Clematis</i> ) |
| Aster (Wild)                | Mage (Moss) - Sea Moss       |
| Dandelion (Dox, Dens, Leon) | Calamus ( <i>Acorus</i> )    |
| Gentian                     | tabacum ( <i>Nicotiana</i> ) |
| Hollyhock                   |                              |
| Hellebore                   |                              |
| Juniper                     | Viola                        |
| Tulip                       | Barberry                     |
| Lily                        | Lupine                       |
| Pony                        | Orchis (Snowy)               |
| Rose                        | Poplar                       |
| Acornite                    | Saxifrage                    |

Wrong application

|            |  |
|------------|--|
| Geranium   |  |
| Nasturtium |  |
| Syringa    |  |
| Aster      |  |
| Calla      |  |

|  | <u>Specific Name</u>         |
|--|------------------------------|
|  | japonica ( <i>Cydonia</i> )  |
|  | Oleander ( <i>Nerium</i> )   |
|  | Buckmire ( <i>Clematis</i> ) |
|  | Mage (Moss) - Sea Moss       |
|  | Calamus ( <i>Acorus</i> )    |
|  | tabacum ( <i>Nicotiana</i> ) |

Mistaken common names

Rock Rose  
grass or sedge  
blue-eyed grass  
yellow-eyed grass  
bent-grass  
dog-tail grass  
Water-lily  
Birney orch.

Beach buckwheat - 2ay annual

To McGregor, Ia. 1921Sat., Aug. 6

Left Iowa City at 2:55 P.M. for Cedar Rapids. A quiet, mucky, cloudy day.

To Toddville - the most common plant in lower in *Asclepias verticillata* in first year old.

Then *Erythrina c. & clata*

Occasional *Liatris pycnostachys* is almost out of flower.

*Asclepias verticillata* is common in large patches to Cutler Pt.

Buchanan Co.

Beyond Walker Rock patches of *Pycnostachys* (<sup>2</sup>) sp. in rather low places. The floral aspect white! *Astruria* and *Orichium* adds to effect.

after a 2½ hrs. wind at  
Porterville we reached  
McWayne at 1:06 am.  
and put up at the Seaside  
Hotel (the old Fisherman).

Sun. Aug. 8, 1921

Arose at 9<sup>00</sup>. Went up  
to the cottage, and had  
lunchen with the neighbors - the  
Jaynes' & DeComb.

In the afternoon we had a  
meeting as per program & I  
responded to the address of  
welcome by Dr. Wallace, the  
Mayor, & Miss Chaffin.

In the evening the Union  
service was held at the  
Methodist Church,  
, and I read the

28<sup>th</sup> Chapter of Job.

Ons Friday night an audience  
Dr. Oberholser gave an illustrated  
talk on Economic Value of Birds.

A beautiful, clear, cool day.

Mon. Aug. 8, 1921

Arose at 6<sup>15</sup> & went down. Took  
breakfast at lunch room.

Another fine, clear day. The  
night was quite cold.

Went down the trail towards  
Pikes Peak. Climbed up on front  
bluff, collecting material.

Also collected on top of Pikes Peak.

Then went down to Picture Rocks  
through woods & collected plants  
(See specimen)

Returned at noon.

In this afternoon the whole party went to the Laramie Rd. which is still good & with coal, ash, mica, etc. The prairie opening in woods on higher points is still good. This is an erosion of the R. Rd. & this evidently prevents development of ordinary forest trees. (Only a few *D. umbellifera* & *D. manzanita* appear clusly on lower.) The sand also probably comes rapid low water. Result dry out, by sun's heat, no shelter hence prairie.

Collected almost no plants. Return for supper & in evening heard Key. Harlan came in.

Tues., Aug. 9, 1821  
This is "government day," and I have little to do, except to take up my work. Went into deep woods on Heights toward St. Peter & L. prairie opening. Collected deer woods plant, & then went to opening & collected plants.

After luncheon I worked on S. slope of Heights, in the woods S. of road.

Found a few mollusks, mostly under *Pop. grandidentata* sticks. Recall:

*Pinnaria pygmaea* *Bifidaria contracta*  
*Carychium exile* *Strobilops rigo?*  
*Zonitoides arboreus* *Pyramula attenuata*  
*Helicidium lanatum* *Polygyra thyroidea*  
Also found a few slime molds & fungi.  
The woods, however, are much

drier and poorer than last year.

Collected flowering plants, &  
took train to Miss Cawnpore.  
This place needed, got fine &  
dry, went to Barber-shop, &  
return to Heights.

After supper went out after  
oaks, Poplars, etc. for class-use.  
In the evening saw fine film  
of Niagara. A remarkable  
feature were the sketches of  
the Niagara map & topography,  
by Dr. Atwood, now President of  
Clark University (Worcester?)

Wed., Aug. 10, 1924.

Rained in early morning.  
I went along road to St. Peter's Rd.,  
to get more acorns, haws, etc., for  
use of school-exercises.

Prof Keys was sick in Dr.  
Weeks' took his place. I talked  
on contrasting classes of,  
1- Oaks- Q. alba, macrocarpa, Umbra, etc.,  
Q. rubra, velutina,

2- Ulmus americana, U. fulva; Ostrya,  
3- Green Ash, Box Elder, Bittersweet,  
Prickly ash.

4- Viburnum glabrum, Lycium  
5- Populus grandidentata, P. tremuloides

Suggested trees for study. You  
get internal & trim tree, cut  
smoothly close to trunk, all  
crossed branches, broken ones, etc.

seasonal differences.

Variations in sizes.

In the afternoon we went (rode) to Pike's Peak. I went with Mr. & Mrs. Nichols of Sioux City (former member of legislature) Capt. Bichel explained "Buffalo-mound". Weeks called attention to fact that birds should be observed in morning. A very small boy asked him why he had his field-glass & he said "to look at pretty girls", & promptly the youngster replied, "Let me look". I talked of do-time upland forest, - scattered large trees with almost no under-bush. The two large white oaks in "buffalo mound"

are probably 150-250 yrs old.  
(Diameter not measure of age.)

Storley talked of fungi causing rot in trees.

As the Pike's Peak lookout Storley discussed the geology & read Savagis account. I called attention to bare slopes on Wisconsin side & timber bluffs on Iowa side. On east every valley or gully was marked by trees.

The storm was very threatening & some drove home. The  $\bar{V}$  was about 110, but the majority however walked down the slope through canyons. Spirit was very fine. Most of us

Prof. McDonald & Mrs. also on  
trip.

western bark in bld., Belly  
fine launch "Arbutus".

On east side we could see  
clearly three zones of  
vegetation on the bars.

It rained part of afternoon  
but the trip was fine.

Walker & Heights. + after  
breakfast I went to meeting.

Webs read an address on

Bird-langs + Stoecky on  
Fungi. Mr. Harlan was  
with us on the trip + talked

of Marquette + first coming  
down the Wisconsin, +

of great council at Prairie  
du Chien which made the  
Mississippi the west boundary  
of the colonies, also spoke on  
events.

Rained again in evening.

We planned to go to Muscoda  
(Dr. Oberholser, Mr. & Mrs. Carl Bickel,  
& Mrs. Willis Bickel).

The couple (the lady small, dark)  
from Valley Jr. are

Thurs, Aug. 11, 1921

It was still threatening rain.  
We crossed the Mississippi to  
Prairie du Chien by ferry at  
9:15. In the party were Mr. + Mrs.  
Carl Bickel, <sup>+ daughter</sup> Mrs. Willis Bickel, Dr.  
Oberholser + myself. Dropped a little.

We drove to Muscoda, + while  
the people were getting dinner at  
the hotel I went to the Jack Pine  
Dunes just west of town.

The dunes have Jack Pine (P.

*Bartsia*) well scattered over them,  
but there are open places. For  
the most part the dunes are  
fairly well (rather thinly) covered  
with sedges & grasses, just now  
very coarse grass being the most  
conspicuous. A few *G. velutina*  
are scattered about. I found  
a number of interesting plants.  
None of the sand-flora proper:

*Cyperus schiminovii*  
*Carex cespitosa*?  
Bromed-grass.

*Hedysarum* —  
*Prunus pumila*  
*Fragaria floridana*  
*Zizaniopsis miliacea*?

There which are Prairie:

*Panicum virgatum*

" *Oscibulum*

*Physalis heterophylla*

*Solidago nemoralis*

" *missouriensis*.

Along the Wisconsin alluvium  
Timber Lobelia *cardinalis*  
was common. On the banks, etc.,  
*Gerardia grandiflora* was  
not rare.

We returned + Dr. Oberholser  
lectured in evening on the  
work of the Biol. Survey (illus.)

Friday, Aug. 12, 1921

In forenoon presided. Weeks & Keyes  
talked.

In the afternoon Dr. Storkey & I  
took botanists into woods. saw  
slime-molds, <sup>Fungi,</sup> etc., & examined plants.

In the evening Dr. Storkey gave  
illus. lect. on life history of ferns.  
I tried to show possibilities  
of the Ute Gorge region:

Pollination; seed-dispersal; special  
habitats, swamp, woods, etc.; variation  
in plants, - values, etc.; etc.

Sat., Aug. 13, 1921

The crowd went to Clayton  
by rail (brought *Sullivantia*  
*shirleyi* & *Ashlemania angustifolia*).  
I was somewhat lame. Went  
to upland woods on the Green  
Ridge & under logs of  
*Populus grandidentata*. I  
collected slime-mold & fungi,  
and snails.

In the afternoon I presided  
while Keyes talked on local  
Indian Mound Groups & Dushole  
on bird migrations. A heavy  
rain-storm came up.

In evening I presided &  
Bennett talked on the Green  
& the Wild Life School (Dushole).  
The evening cool & clear.

Sun. Aug. 14, 1921

Capt. & Mrs. Brehl + Dr. Oberholser  
& I, started at 10 am. for a trip  
to the southern part of the county.

We drove to Garnavillo, and then  
on to Millville. From the Garnavillo  
we rise to road leading to Piles'  
Peak, & then with ups and downs  
we passed over the high plain,  
cut up by valleys. From Garnavillo  
we traveled S. E. to Millville.  
The uplands in Garnavillo &  
Jefferson Townships are characteristic  
of the uplands of this region;  
there is a high plain, cut  
by valleys. All of this upland  
plateau was prairie. The  
valleys and cañons are timbered  
throughout.

The upland material does  
not look like loam. It seems  
to be more finely loamy, and its  
color is a dull brownish.  
At Millville we turned  
uphill for a couple, and  
drove along the Little Bushy  
river to Graham. It is really  
only a large creek, but  
its valley is distinct, with  
rather prominent bluffs &  
limestone ledges. We tried  
to get into Pinecreek Hollow,  
but a farmer told us that  
the road was not passable  
and it appeared so. He said  
that the Hollow had not  
been cleared, and was still a  
wilderness.

We drove on to Collesburg and expected to visit Twin Springs, but the road was impassable because of a washed out culvert, and we turned on to Edsberg, and then to Fountain Springs, on the road to Greeley. Here is an old mill, & a stream of water shoots out at a considerable height. We crossed the bridge & went up to a spring in the valley some distance up. This spring bubbles up from gravel, and agates are frequent here. I collected a few plants. Mrs George Banta, <sup>wife</sup> this is near his farm. We then drove to Edgewood, and there north to

Bixby Park. Visited the ice cave. Notices following  
trees & shrubs:  
~~Vaccinium~~ <sup>Cassia grandiflora</sup>  
~~Salix~~ <sup>Wt. Hidcote</sup>  
~~acer negundo~~  
~~acer saccharum~~  
~~Prunus~~ <sup>strigosa</sup>  
~~Prunus~~ <sup>rotundifolia</sup>  
~~Betula~~ <sup>canadensis</sup>  
~~Lentaria~~  
~~Salix~~ <sup>crispa</sup>  
~~Lentaria~~  
~~Salix~~ <sup>tristis</sup>  
~~Prunus~~ <sup>canadensis</sup>  
~~alnus~~ <sup>american</sup>

This is plain well worth visiting. On the ledge I collected a few plants, including *Cryptogramma stelleri*. We then drove to Elkhorn, via Littleport and Commerce. The uplands show some cutting up of a great plain.

Near Littleport, well down in valley, I saw a cut with what appeared to be loess, with gravel

H. E. James, Edgewood, Ga., want  
to know about the shrub from  
Brixton Park.

under it. From *Prunus pennsylvanica*  
along road, S. of Elkhader,

The upland view is true fine,  
and this was all really  
prairie on the uplands.

Beyond Elkhader we again came  
up on uplands, with fine view.  
The roads are being repaired, & are  
bad. We were stuck for over half  
along road everywhere *Linaria*  
on lawns. *vulgaris* was very common, in flower.

We reached the Georgia at about  
8<sup>00</sup> pm. I went up hill, changed,  
and attended evening meeting  
at the Congregational Church.

Prof. Shirling talked on shrub, etc.,  
planting for decoration, etc.

He followed a film  
by the Educational people on  
plants. Many corn in the

legends. Here are some.

1 - It said no plants where  
no soil.

2 - Dahn grows on gravelly hills.

3 - Water plants broader  
& thicker stems than  
marsh plants.

4. Dunes have plenty of  
water.

Monday, Aug. 15, 1921

I went down in the morning, &  
started for Pikes Peak, taking  
a lunch. I collected mosses,  
liverworts, fungi, etc., - a goodly  
lot. Also a few vascular plants.  
At 2<sup>00</sup> pm I met the party  
on top of Pikes Peak, where

each instructor talked. I discussed the open woods of long ago, with large trees & little underbrush, and also destructive work of fungi on trees, and their beneficial work on the leaf-mould. Also talked on prairie openings.

We returned down to Picture Rocks, & walked along R.R. to the bay.

The steamer extension was given up, no boat coming, in the evening. I filled in by talking on Plant Habitats, etc., & Dean Kay talked on Antiquity of Man.

Tuesday, Aug. 16, 1921  
Since the trip to the Loyalwing Park (Wisconsin) was given up (it rained most of the day) we postponed the Wednesday Program back to Tuesday.

Dr. Weeks talked on value of bird-study, and I talked on common names & conservation of wild flowers. Rained all the time, yet 75 were present.

In the afternoon Prof. McDonald talked on methods of forest handling & I gave an exercise on Compositae (using material). 78 were present, & all remained.

In the evening Prof. A. E.  
Shantz of the Polytechnic  
Institute of Kansas City, Mo.  
talked on insects, & Dr.  
Bennett showed slides  
of pictures taken the other  
day. Cloudy in the evening,  
but no rain.

Wednesday, Aug. 17, 1921

A very heavy rain, with a magnificent  
lightning display, came up after  
midnight.

In the morning everything was  
wet & I spent a part of the <sup>bird study</sup> forenoon (after introducing Dr. Weeks.)  
in mounting Slime molds, etc. Dr.  
Keyes talked on the mounds of the

*Oholoyi reginae*.

After lunch we had a little  
botanical conference in the tent,  
and then went to the St. Peter S.S.  
train opening our way to  
Lokomat. We visited the prairie  
plants, and identified 54 kinds,  
besides border & stray forest  
plants.

We then went to the mound,  
near the Lokomat, and saw  
excavation conducted by Prof. Keyes.  
A few Unio shells (fragments,  
or worn shells) were found  
in it. In the evening Dr. Oberholser  
talked on conservation of large mammals,  
and I on the causes of the  
prairies.

Thursday, Aug, 18, 1921.

I had nothing A. M. & Prof. Macdonald and Shiring took the afternoon for field-trips. Went out with W. N. C. Elwell, in Canuck, to Bay Magill bottoms. I collected some fungi, but few species were found, and these nearly all on logs of Am. Elm. Saw no slime-worms nor land snails. Collected many plants. Mowers were plentiful but of few species. Saw six oaks. *Q. bicolor* is frequent. One specimen measured just 4 ft. in diam. (12.5 ft. in circumference at breast height). Large bur-oaks are also frequent, and smaller *Q. ciliata*,

root leaves & stems from this *Q. ciliata* tree.

This is on a somewhat elevated bank on which about 101 mounds have been found, some empty.

I found one large *Q.* bicolor in which rougher bark (not quite so rough as in *Q. macrocarpa*) was scaling off, & finer, light-colored bark remained, same as my bur-oaks & white oaks at Homestead & Iowa City.

Also collected plants along RR. Found large patch of *Gentiana lutea*.

Obtained a few shells from clam-man near Bay Magill.

We returned at 6<sup>30</sup> P.M. In the evening the Commercial Club held a meeting (with a little banquet) at which all the members of the faculty spoke, and also several of the citizens and visitors. After the meeting I worked until 11<sup>00</sup> P.M.

A committee was appointed by the Club to consult with the faculty as to best ways & means for perpetuating & developing the Wild Life Conservation School.

Friday, Aug. 19, 1921.

Went out at 5<sup>25</sup> A.M. to the Pictured Rock canon. Found *Poggia pendula* in flower. It was on a slope in woods above the upper spring (above the Bridal Falls), at base of a big Hard Maple, grew among leaves on ground. Also collected a fine lot of Antennaria on sandstone spurs in Pictured Rocks, & lower, on same sandstone, a small limestone.

Returned at 8<sup>25</sup> A.M.

At the morning meeting every member of faculty talked.

I talked on "Cruelty in Nature".

In the afternoon I had a conference showing Q. bicolor & Q. ellipticoides,

Oct 1

and answering questions.

A storm comes in, I went down after the storm to the town.

In evening a Vienna meeting, there talks. I answered question on slumbering, & bending of trees by wind.

Sat Aug 20, 1921  
At Chas. T. Kramm's Drug store, there are three heaps of dry "roots". *Hydrastis canadensis*, growing & *Cypripedium*, all are local. Mr. Elwell has a heap of *Cypripedium* "roots."

At 1 P.M. (Friday) we had a conference with the Committee of the Commercial Club. Present, Mrs. Damerow,

Lux, Capt. Bichel, and two others. Agreed that name should be changed to The American School of Conservation. (In the evening at the general meeting this was adopted (as part of Resolution Com. report. This was a fine report prepared by Miss Anna M. Marshall, chairman of English Dept. in the La Crosse High School. With her was the teacher of Biology, Miss Bertha Shewman, also Annie G. Ford, of the same school.) but reconsidered, & then left to a Committee, names suggested. (by Mrs. Himes) The School of Wild Life & Conservation. (by Mrs. Bichel) Then <sup>of 3.</sup> the School of Conservation & Wild Life. Finally Saturday

Am

I suggested the School of  
Out-Door, but Dr.  
Oberholser thought it would  
not meet their requirements.

Finally Capt. Bickel suggested  
The American School of Conservation  
The School of Wild Life & Out-Door.

The spirit throughout the  
school was fine, and all  
are enthusiastic boaters.

The Conserving Club will  
raise a larger fund &  
the work will be more  
varied. Dr. Oberholser  
thought it would be possible  
to get the Fisheries Bureau  
interested.

Packed some late at night,

Sat., Aug. 20, 1921  
I awoke at 5<sup>30</sup> AM & finished  
packing. Went down with Bickel  
& finished packing the papers.  
Mrs. & Mrs. W.H. Elwell want  
me to come for an Eastern Star  
meeting.

We left at 2:14 PM for  
Sabula & Cedar Rapids. I  
checked two large boxes (&  
my suit case) and sent two  
hand boxes by mail and a  
large press full of dried fish by  
express.

The bluffs are close to the RR  
practically across all of  
Clayton Co. & much of Dubuque.  
As Dubuque & a few other  
towns (including valley of tributaries)

Sep. 3, 1921 Sat

the bluffs recede.

Opposite Sabula they are rather low & rounded, & with not so much timber, - probably cleared.

A swamp just S. of the RR. at Sabula has quite a lot of *Kelumbium*, now still in flower.

We left Sabula at 6:45 AM. for Marion Cedar Rapids.

For the last three days I have had a bad case of bronchitis, from walking

To Dyersville, We negotiate.  
Left town city at 2:55 PM, & Cedar Rapids for Delaware at 5 PM.  
The day has been hot and quiet, mostly cloudy. A fine steady rain continued until nearly 10 AM.

Everything looks fall like. Corn is laying rapidly, *Melilotus alba* is all dead, and flowers are mostly *Helianthus* & *Solidago*, with few *Cirsium*.

Linen

*Liatris ligulistylis* fl.  
*Helianthus grosseserratus* fl.

*Solidago rigida* fl.

" " *Polygonatum multiflorum* H. (A)  
" " *Perideria glauca* H. (A)  
" " *Lanceolate* fl. (all)

*Solidago nemoralis* fl.  
*Andropogon furcatus* fl.

*Vernonia viscosa* fr.  
*Aster multiflorus* var.  
*Solidago canadensis* fl.  
*Silphium integrifolium* fr. (low)  
& *Solidago speciosa* fl. (low)  
*Cirsium discolor* fl.  
*Prenanthes alba* woods  
*Equisetum sylvaticum* woods  
*Artemisia latifolia* fr.  
*Liquidambar coccinea* fr.

Jones Co.

*Solidago canadensis* fl.  
" rigidula fl.  
" meanthangustata fl.  
minima  
*Sophora secundiflora* fl.  
*Helenium grosseserratum* fl.  
" stans? fl.  
*Cirsium discolor* fl.  
*Andropogon furcatus* fl.  
" scoparius fr.  
*Morinda punctata* fl. along  
Rhine glabra fr.  
*Gentiana lutea* fl. border  
*Spigelia Michauxii* fl.  
*Eriogonum canescens* fr.  
*Anemone multiflora* var. R.  
*Oreaster albus* fl. (little)  
*Artemisia ludoviciana* fr.

Yellows decidedly dominate!

*Aster laevis* fl.  
*Liatris punctata* fl.  
*Helenium scaberrimum* fl.  
*Potentilla argentea* fr.  
*Anemone canescens* fl.  
*Dryas canadensis* fr.  
*Liquidambar coccinea* fl.  
*A white Liatris scariosa* fl.,  
*Silphium laciniatum* fr.  
" undispelled fl.  
*Scirpus cyperinus* fr. (low.)  
*Kordia pubescens* fr.  
*Liatris spicata* fr. (rather low)  
*Gnaphalium hololeuca* fr.  
*Salix humilis* fl.  
*Asclepias syriaca* fl.  
Monticello.  
*Kepharea eupatorioides*  
*Thlaspi glaucum heterolepis*

Reached Delaware at 7:24 P.M. &  
changed to Ill. Cent. Ry. Left at  
8:12 P.M. for Drydenville. It is now  
clear, and promises well. Rained

(I found that all my so-called Clayton  
co. localities for plants & shells in this region  
are in DuBois co. - Delaware area?)

a little here at Delaware in  
the morning.

Reached Dyerville at about 8<sup>30</sup> & put  
up at Dyerville House.

John B. Witt } This is a sign  
Anna M. Witt, } in Dyerville!  
Lawyers }

Sep. 4, 1921, Sun,

Arose at 5<sup>45</sup> A.M. & prepared for  
trip to Pine Hollow.

Had \_\_\_\_\_ drive me to a point 2 mi. W. &  $\frac{1}{2}$  mi.  
N. of Luxemburg. I then  
went N. to Pine Hollow.

Just before entering the small  
valley leading to it I found  
a place much cleared, with stumps  
& a few dogs. Collected fungi

and a few slime molds.

Then followed Pine Hollow to  
outlet. The best part is all  
in DuBois Co. Indeed, the  
best part ends on S. line of  
sec. 6, a mile from N. line of  
county. The walking is rough.  
There are no paths or trails.  
It rained last night, & the  
morning was foggy & very sultry.  
Sprinkled a little in forenoon.  
Then cleared, - & hot!

I reached Graham at about  
4 P.M. & terrific rain storm  
came up. Left Graham at  
5<sup>30</sup> P.M. & walked about a mile  
over very slippery road. Then  
a young farmer, Wesley Welsh

came along & took me (by  
team & buggy) to Millville,-  
Aug 3<sup>rd</sup>.

Put up at (Donald's?) for  
the night. Bed bugs. - I  
slept on the floor because they.

Sep. 5, 1921 Mon.

Left Millville at 5:45 AM. The  
road to Millville Siding (1 mi.) was  
very muddy. I then walked down  
the track to Turkey River.

Quite a team bog after the  
rain. Every morning on this  
trip, - to Mc Gregor, - was foggy.

I took the train at 7:18 AM.  
for Clayton. Left my stuff  
at the station, got my package  
of papers, and walked to the first

sandpit S. Went up the cañon  
a short distance. Found  
*Asplenium platyneuron*, *Athyrium*  
*Goldianum*, *Sullivantia olivacea*,  
etc. Saw some very fine *Camptosorus*.  
Collected mosses on the. At Peter  
J. S. ledge, & also picked up  
a few mollusks in drifts  
along the little creek. Had  
a boy with me, 13, - whose mother  
left the father. He told me his  
experience. Both have to work.

I left for Mc Gregor at 1:00 PM.  
At Mc Gregor I packed plants  
from Pine Hollow & Clayton, & worked  
a little along road leading up  
to Mc Gregor heights. Found Wm C's  
little Composite wood, - & a few  
other plants.

Sept. 6/1921, Tues.

In forenoon went up river in the "Arbutus", to clammers above Marguerite. Found one Margaritaria monodonta. Mr. Elwell says he will get more for me.

We had started out with Mr. Elwell's launch, but had a break-down, & Mr. Fred Bell took us in the "Arbutus".

We also got roots of Lobelia cardinalis on island.

Sent roots of Asplenium amstorpae & Lobelia cardinalis to John Springer & Ella. Went up on McGehee Heights, & collected fungi & slime molds in woods. (also a few marshes) and prairie plants in St. Peter's opening.

In the evening I attended the E. Star meeting, & talked on the obligation. Told Pinnacle story.

Got to bed at 1<sup>oo</sup> am. (I stopped at the Scenic Hotel.)

Sep. 7, 1921 - Wed.

Miss Klein (our Miller's friend) drove R.P. Adams & me to Pike's Peak (Miller was along).

We worked down the St. Peter's limestone slope (below top limestone) & collected mostly mosses, liverworts & lichens. Then we worked in the Pictured Rocks canon, getting mostly mosses & liverworts; some fungi from Miss Cavanaugh.

Atrichum on limestone block, just S. of <sup>2nd</sup> bridge between RR. & road, S. of the RR. station at McGehee.

Returned after 2<sup>nd</sup> P.M. packed,  
and went up on open wood slope  
on S. side of Mt. Gregor Highs,  
just N. of Lewis & Richards.  
Found Miss C's Rhamnus; - Ceanoth.  
water; Crataegs (esp. in fr.), etc.  
Also an apple "run wild".

I took sets of lvs. from two  
trees of the Rhamnus.

Spent evening in packing.

Sep. 8, 1921, Thurs.  
Shipped basket (to Miss C.) and  
a small box with Ceanothus water  
for sections.

Left Mt. Gregor forDecorah  
at 8<sup>th</sup> A.M. Reached Decorah  
at 10:<sup>55</sup>. Took lunch at  
"Shorty's" restaurant.

At 11:<sup>37</sup> am. Wm. Krocke's  
Ford driver took me to Block  
(a ledge) of St. Peter's L. S., near  
mill N. E. of Kester, & across  
a 40 ft. south of state line.  
A shower (with few hail) came  
up. I collected Polygonum  
Bongianum (fl.), P. tenue (fr.), Brunne-  
anthera (lf.); Potentilla tridentata  
(fr.), Abronia (fr.), Betula (fr.),  
Polygala, Lithos., etc. Also  
many mosses, few fungi & some  
lichen. Saw no Woodsiella.  
Collected Adiantum capillus-veneris.

Returned to Decorah just in  
time to take train for Crescent &  
Charles City. Left Decorah at  
3:15 P.M. Reached Charles City  
at 5:52 P.M. & changed to Ill. Cent.

station, for train due to  
leave at 6<sup>45</sup> PM.

Left Charles City at 6<sup>45</sup> &  
reached Stacyville at 8:<sup>13</sup>.  
(The factories at Charles City  
seem to be dead.)

Wes George at station, & then  
Mamma, Anna, Jo, Anna & Vlada.

Sep. 9, 1921, Fri.

Packed all forenoon. Sent  
pots of plants to Mrs. Cavanagh.

Packed up & left with Ma at  
12:55, George taking no. to Lyle.

Took C. R. W. train at Lyle  
for Mason Co. (at 2<sup>00</sup> P.M., the  
at 1:<sup>43</sup>).

Day bright & quiet.

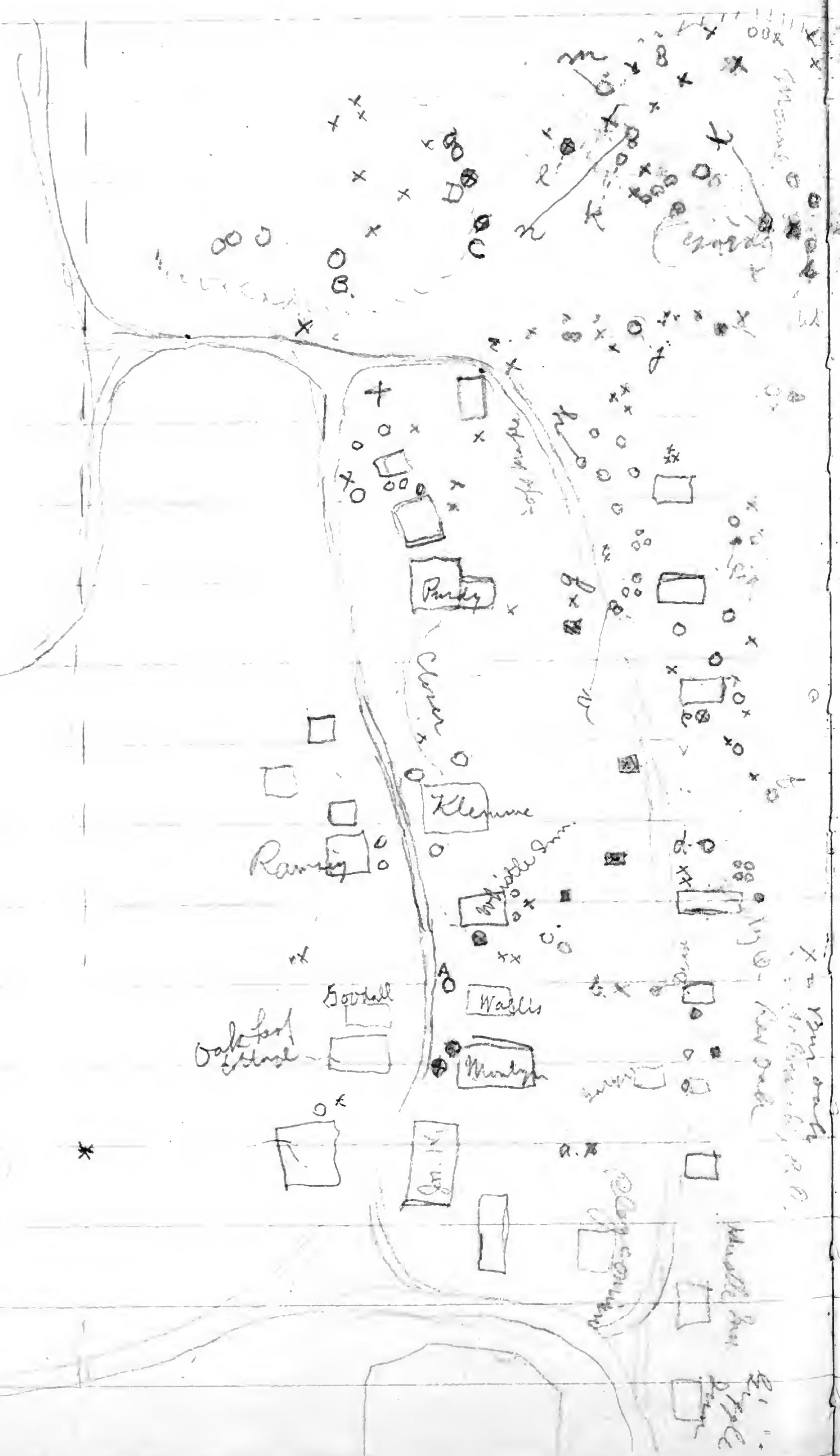
Reached Mason City at 2:50 P.M.  
The prairie plants along the RR.  
are mostly rather old-looking.  
Helianthus, Solidago and Aster seem  
to be the conspicuous flowering plants.  
After arranging for mail, etc.,  
etc., we took the 4:15 car for Clear  
Lake.

Sep. 10, 1921, Sat.

Rained early in the morning.  
I looked about for oaks. Collected  
Schneiders Red Oak & Bur Oak acorns.  
(Numbered by letters, -postern.)

Oak (a) - A bur oak 23' diam. - fairly  
good condition.

Oak b - Bur oak - 18' diam. Fairly  
good.



Wurde am 1. Jan.

22

Morristown  
Collection

A small, dark, irregular smudge or ink mark located in the upper right corner of the page.

Oak c - Schneid's Red Oak - 15' Fair.  
Zool acorns only,

Oak d - Schneid's Red Oak - 23'.  
Rather bushy - good - ov, bulging caps.

Oak e - Red Oak (?) - 22'.  
Good condition. Both lvs. & acorns.

Oak f - Schneid's Red Oak 21' - a low,  
bushy tree, with low hanging branches.  
Acorns all hard - picked.

Oak g - Bur Oak - 29' - with big gall on  
the lower part of bark in smooth (coarse  
flakes off) coarse shows upward.

Oak h - Schneid's Red Oak - 20'.  
One under branch crowded,  
(see pic at top) but good.

Oak i - Bur Oak - 17' - quite good.  
(surface scaly). Kink caps, almost closed.

Oak j - Schneid's Red Oak - 28'.  
Rather scaly, fairly good. Acorns only.  
Bark rougher than usually

k - Schneid's Red Oak - 22' - Fairly  
good - all of them are inclining to  
branch low & bush out. Bark  
moderately rough.

l - Red oak - moderate & squat. Bark  
moderately rough only - 22'

m - Schneid's Red Oak, 14' - Fair, squat.

n - Schneid's Red Oak - Triple tree. Largest  
(west) part = 25' - low, branching

o - Red Oak? - Rather tall, good. 20'.  
Moderately rough bark. Most of  
these are gray with lichen. Bottom of

p - Red Oak? 12' - broken at top

q - Schneid's Red Oak - 12'.  
Acorns only.

r - Red Oak? - 11'.  
Acorns only.

Concordia B, 2, S., O. p. s.

Oak s - Red Oak? - 14'

Leaning -

Oak t - Rev Oak. 20'

Rather low, bushy - good tree.

Oak u Red oak? 15'

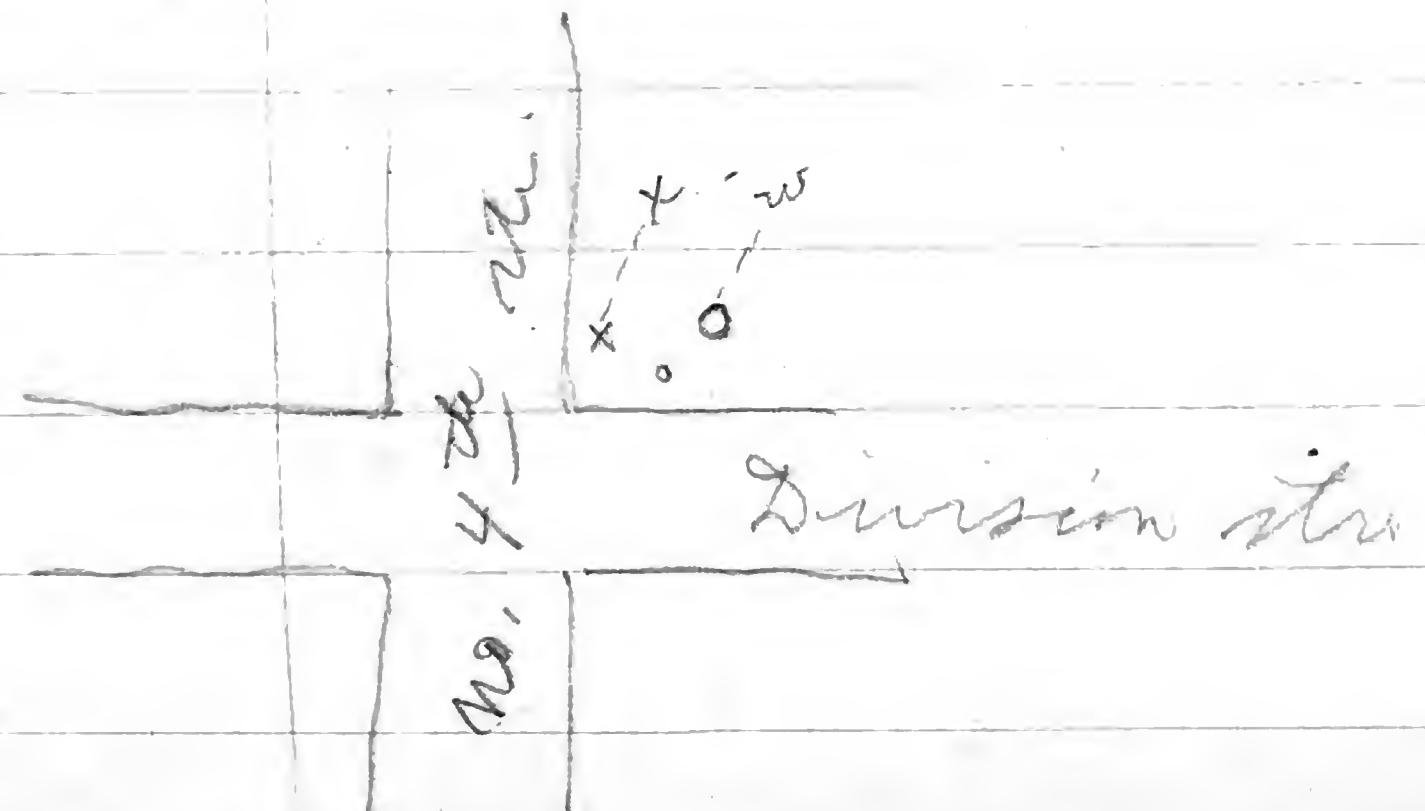
Rather broken - On ground.

Oak v - Schneid's Rev Oak 13 $\frac{1}{2}$

Double tree - <sup>(one)</sup> one side dead.

Acorn only.

Went to small bank at  
intersection of No. 4th & Division  
streets, Clear Lake.



In SW. corner of little park

I found:

Oak w - Schneid's Red oak - fine  
acorns. - Diam = 18° low, bushy

Oak x - Rev oak - took acorns  
only.

In the afternoon, at 1:50, I  
went to Mason City for my basket  
& press.

The day has been partly cloudy,  
and it drizzled a little a couple  
of times. In the afternoon it was  
clearer.

Yesterday (before rain) when we were  
going from Mason C. to Clear Lake,  
just E. of the midway station (Emery)  
S. of a RR, a willow hedge at  
thicket on S. side of road  
made road wet. Down to base.

Returned to Clear Lake.

after 3<sup>30</sup> pm (at Clear Lake)

Oak A - Red Oak - (Schneid.) - 21'

Fork acorns, only.

Oak B - Large, rather low, smooth & branching.  
30' diam. Gray bark lichen, Not very  
rough.

Oak C - Schneid's Rev Oak  
Large, low, bushy. 28' branch.  
Not many lichen.

Oak D - Rev Oak. - 22 $\frac{1}{2}$ '

Few lichen - low, branching.

Saw Brunn. virginiana N. of

RR. 5 $\frac{1}{2}$  m. in diam. & 35 ft. tall.  
large 2

A Rev Oak stump N. of RR, in  
good wood, shows 98 rings &  
measured 23 $\frac{1}{2}$  clear wood, & 25 in.  
bark, 30 in from ground.

There are logs everywhere, but  
logs are in tree, & place is  
too clean.

Collected fungi & some lichens.

Returned to cabin & spent evening  
in arranging materials.

Sept. 11 - Sunday 1921

A cold night, but no frost.

Cloudy, with just a little breeze.

Left at 7:10 AM. for Mason City.

Went out to Big (Buffalo) Slough.

First works from end of car line.

On Kentucky Ave., S. of 16<sup>th</sup> st.

(S.W. of Ave.) I observed Hills  
oaks (Q. ellipsoidalis) as follows:

Oak I is a small Q. ellipsoidalis.

12' diam. This is N. one. S. is about same.

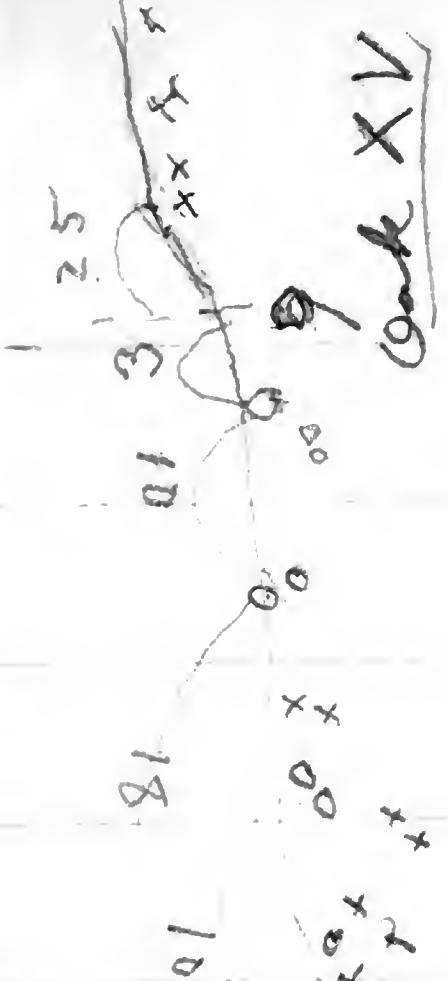
Oak II - 13' low, more branching.

Bark relatively in taste, but not rough.

Low & fine.

Planting line.

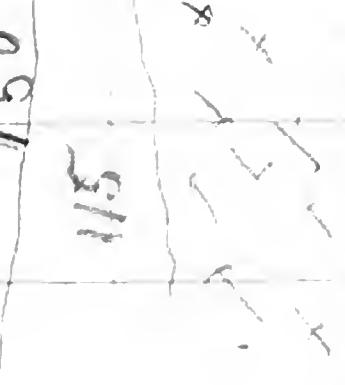
17' 26'



Oak XV

150

145



A

4

8

12

16

20

24

28

32

36

40

44

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52

56

60

64

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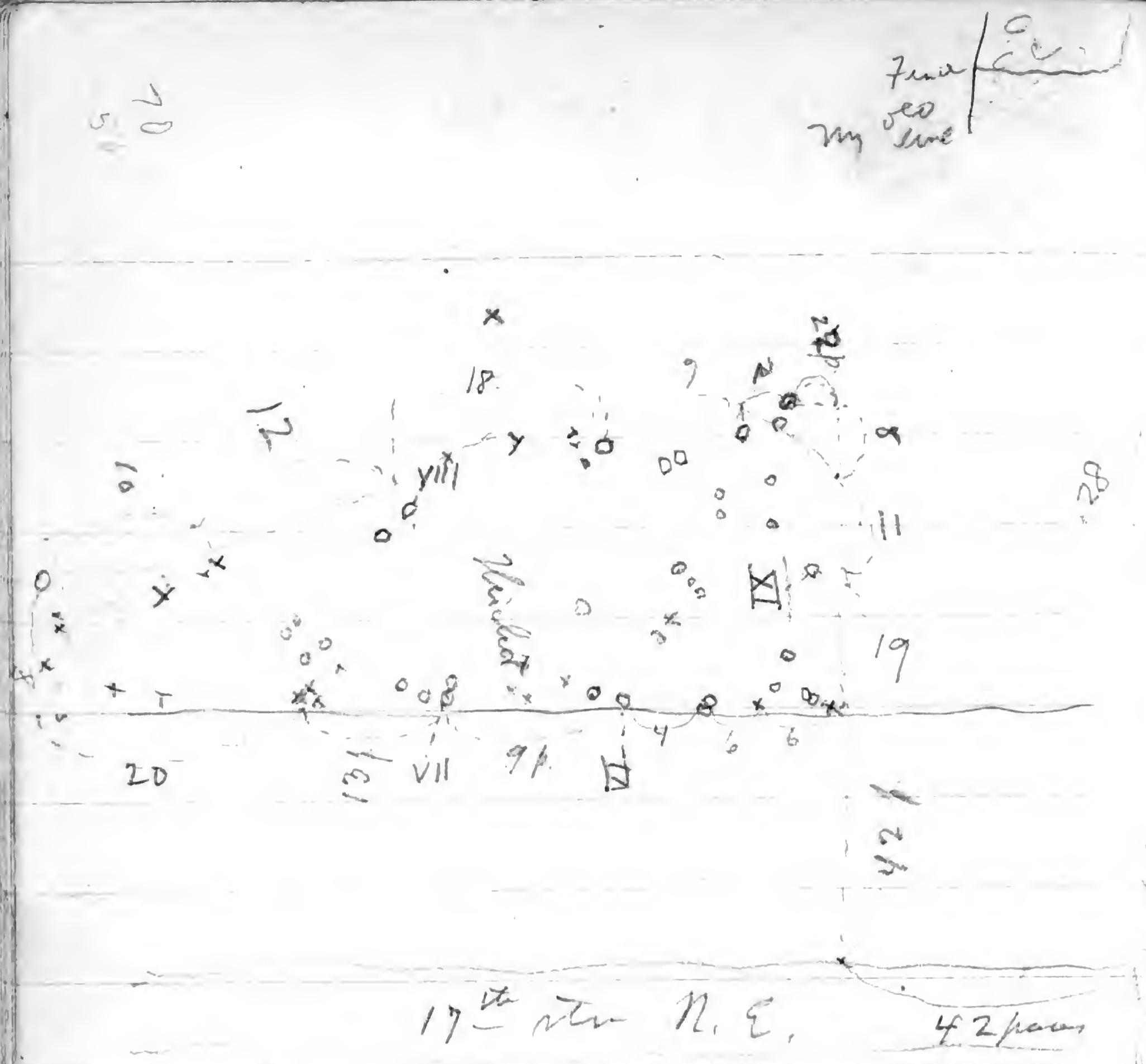
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Sixteenth star - 4.2.

10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32' 34' 36' 38' 40' 42' 44' 46' 48' 50' 52' 54' 56' 58' 60' 62' 64' 66' 68' 70' 72' 74' 76' 78' 80' 82' 84' 86' 88' 90' 92' 94' 96' 98' 100' 102' 104' 106' 108' 110' 112' 114' 116' 118' 120' 122' 124' 126' 128' 130' 132' 134' 136' 138' 140' 142' 144' 146' 148' 150' 152' 154' 156' 158' 160' 162' 164' 166' 168' 170' 172' 174' 176' 178' 180' 182' 184' 186' 188' 190' 192' 194' 196' 198' 200' 202' 204' 206' 208' 210' 212' 214' 216' 218' 220' 222' 224' 226' 228' 230' 232' 234' 236' 238' 240' 242' 244' 246' 248' 250' 252' 254' 256' 258' 260' 262' 264' 266' 268' 270' 272' 274' 276' 278' 280' 282' 284' 286' 288' 290' 292' 294' 296' 298' 300' 302' 304' 306' 308' 310' 312' 314' 316' 318' 320' 322' 324' 326' 328' 330' 332' 334' 336' 338' 340' 342' 344' 346' 348' 350' 352' 354' 356' 358' 360' 362' 364' 366' 368' 370' 372' 374' 376' 378' 380' 382' 384' 386' 388' 390' 392' 394' 396' 398' 400' 402' 404' 406' 408' 410' 412' 414' 416' 418' 420' 422' 424' 426' 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1854' 1856' 1858' 1860' 1862' 1864' 1866' 1868' 1870' 1872' 1874' 1876' 1878' 1880' 1882' 1884' 1886' 1888' 1890' 1892' 1894' 1896' 1898' 1900' 1902' 1904' 1906' 1908' 1910' 1912' 1914' 1916' 1918' 1920' 1922' 1924' 1926' 1928' 1930' 1932'

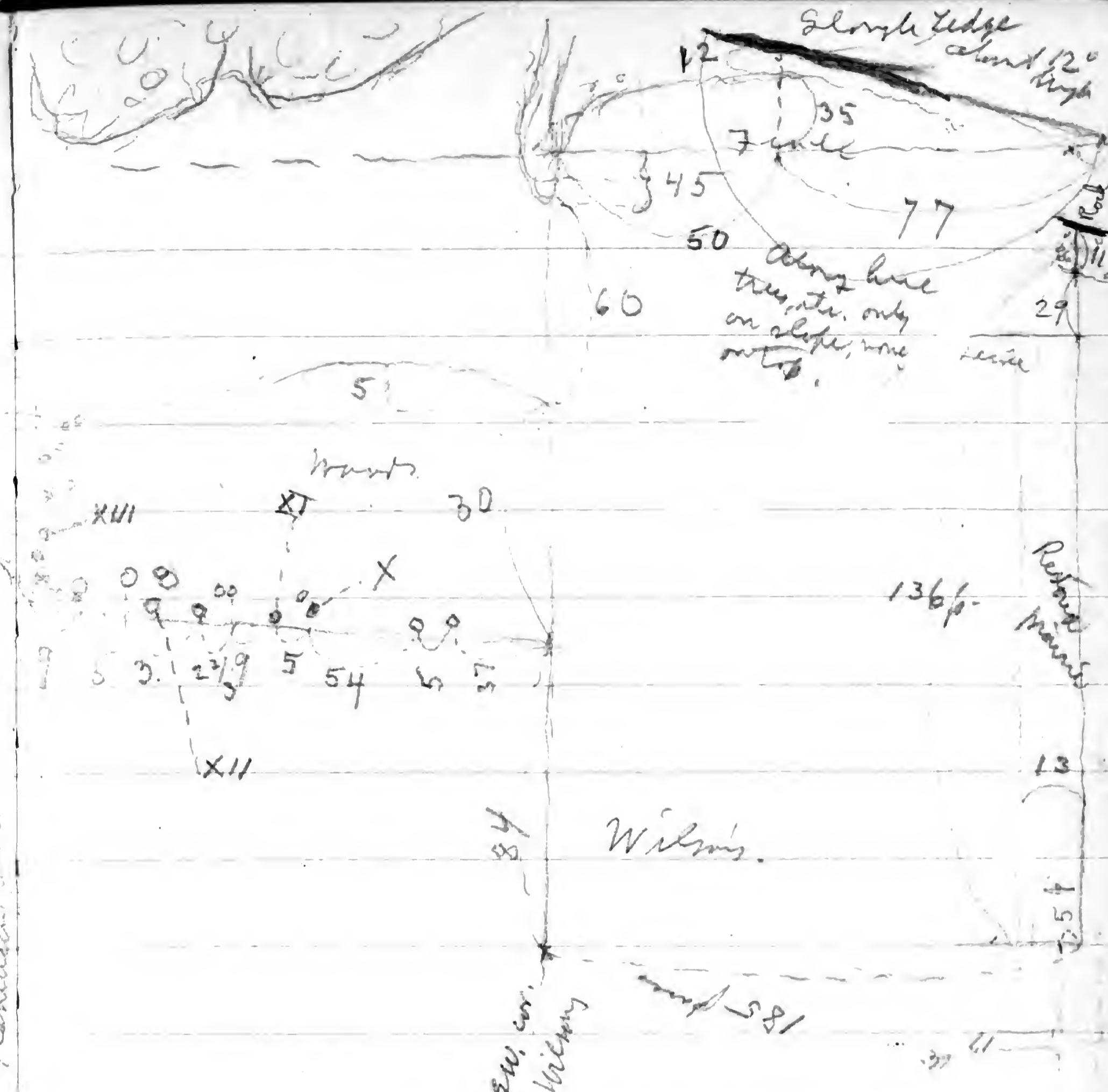


17<sup>th</sup> str N.E. 42 paces

all above form open forest & <sup>are</sup> mixed  
Oak & Q. elip. 10 $\frac{1}{2}$  - Two trees - both with rotten scars  
Trunk tremble will up.

Oak XI-Q ellip. 11' - Quite smooth-bark, Bushy & low branching. Trunk soon deliquescent

Dak XII-Q ellis: "10' - Quile mouth - Bark brown  
Lvs. & br. trunk soon forks



Oak XIII - Q. ellip - 8 m. Quite  
smooth bark above. Lvs. + fr.  
Many dead branches below & on inner side  
This one shows much well up through crown.  
These oaks are all rather low, bushy, poor branching,  
with many dead branches persisting. Bark  
dark, usually not very rough, - above smooth as  
in Red oak. They seem to be common in

5½

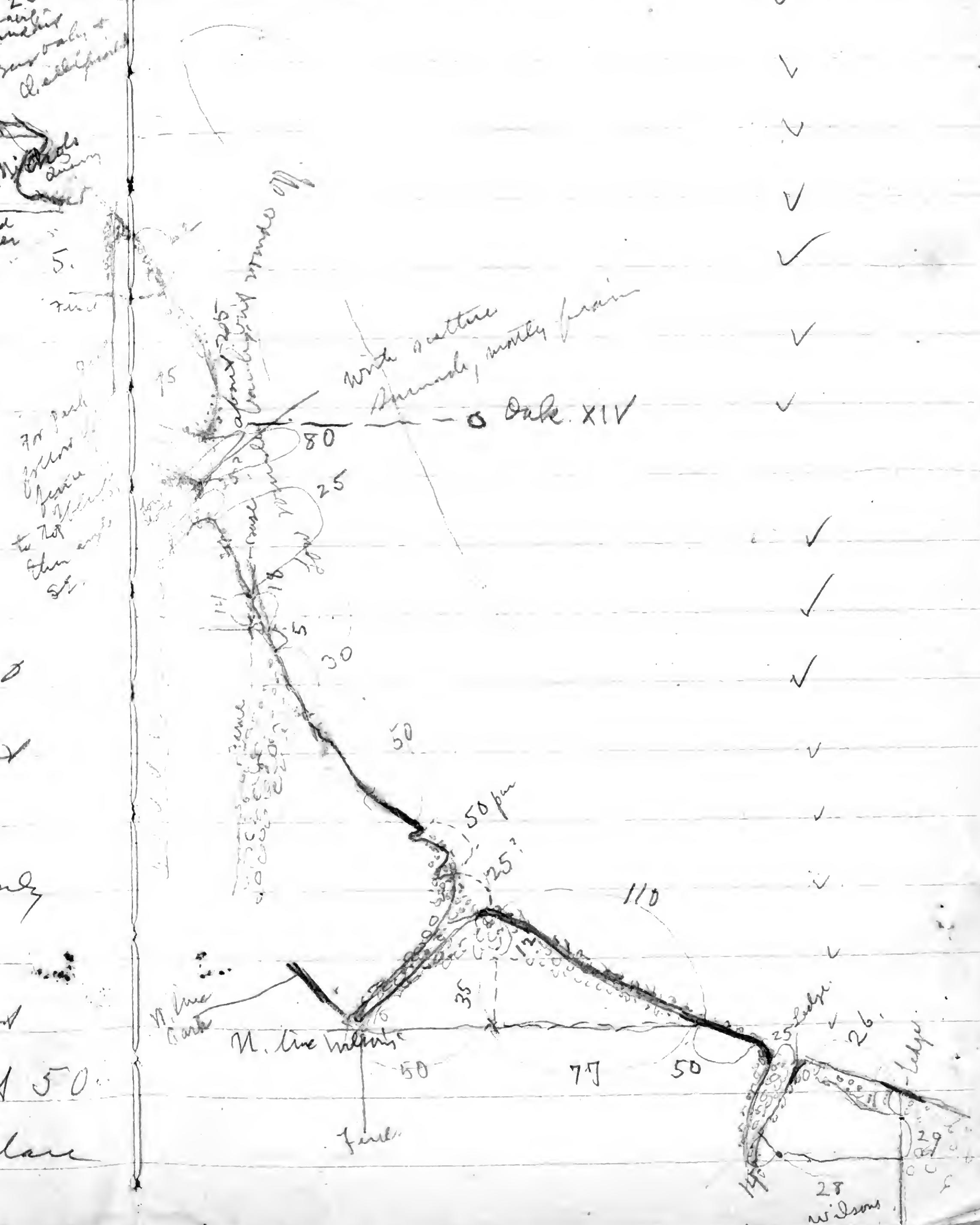
5/2028

evening

The bluffs on the Highlands plateau.  
The low oak forms borders, and  
it is in the more exposed places.  
The Wilson native prairie is  
a mass of flowers, *Aster multiflorus*,  
*Aster agerinus* & *Solidago rigida*  
being the most common. Collects  
plants from this & the adjacent  
native prairie.

The upper cut, Glass, etc., has  
no banks w. bluffs more than 8 or 10  
ft high & more abrupt except  
at two small  
gullies. The timber  
above Glass' (to large size) is only  
in the shape of the bank.

At upper end made trip (at least  
across first piece of grove, about 50'  
yds, then narrow to 100 ft. to place  
next above Wilson).



Take in all the Keele timber  
at N. end

On East side run only 1/2 sec. line  
& then widen<sup>(2)</sup> to 100 ft.

Oak XIV - Q. ellip. is on a low  
high place (above low bluff) on E.  
side. One smaller spec. is N. of it.  
a small low oak just S.E.

It is a low, bushy tree, with  
rather smooth bark, & 10' diam.

Dome crown, with a few very stiff  
hard small dead branches.

Leaves & fr.

I collected plants in the prairie  
openings on the N. E. side, & a few  
swamp plants in Big Slough.

I then went to my Prairie E.

of R.R. & found it partly pastured  
& partly cut over.

Collected only a few plants, &  
a few swamp plants.

Rode a way in auto & then took  
car for Marin Co. Caught the  
6<sup>o</sup> PM. car for Clear Lake.

The day (afternoon especially)  
was clear, sun with only a little  
wind.

Near Joe's garden, in rather  
low place I measured clumps  
of Andropogon furcatus.  
Tallest ones = 7 1/2 ft.

Spent evening in visiting  
with the folks at Joe's.

Work done of some materials.

Sept. 12-1921 - Mon.

Packed some material (my basket & return materials) & left for Marin Co. at 10<sup>30</sup> am, got money <sup>slipped</sup> <sub>1/2</sub> extra basket, got paper, barklets, etc. and at 12<sup>30</sup> went to Highlands.

Oak X V - 9 $\frac{1}{2}$  in, many small dead (dead) branches. around lvs.

A very poor year for parasitic fungi

Follow Slough R. & then cross to E. side. Platte prairie, etc.

The Big Slough is very dry, & even S. of road where there is usually a big pond, it is now mostly sand flats.

The flat which I made

today is on next page (up-side down).

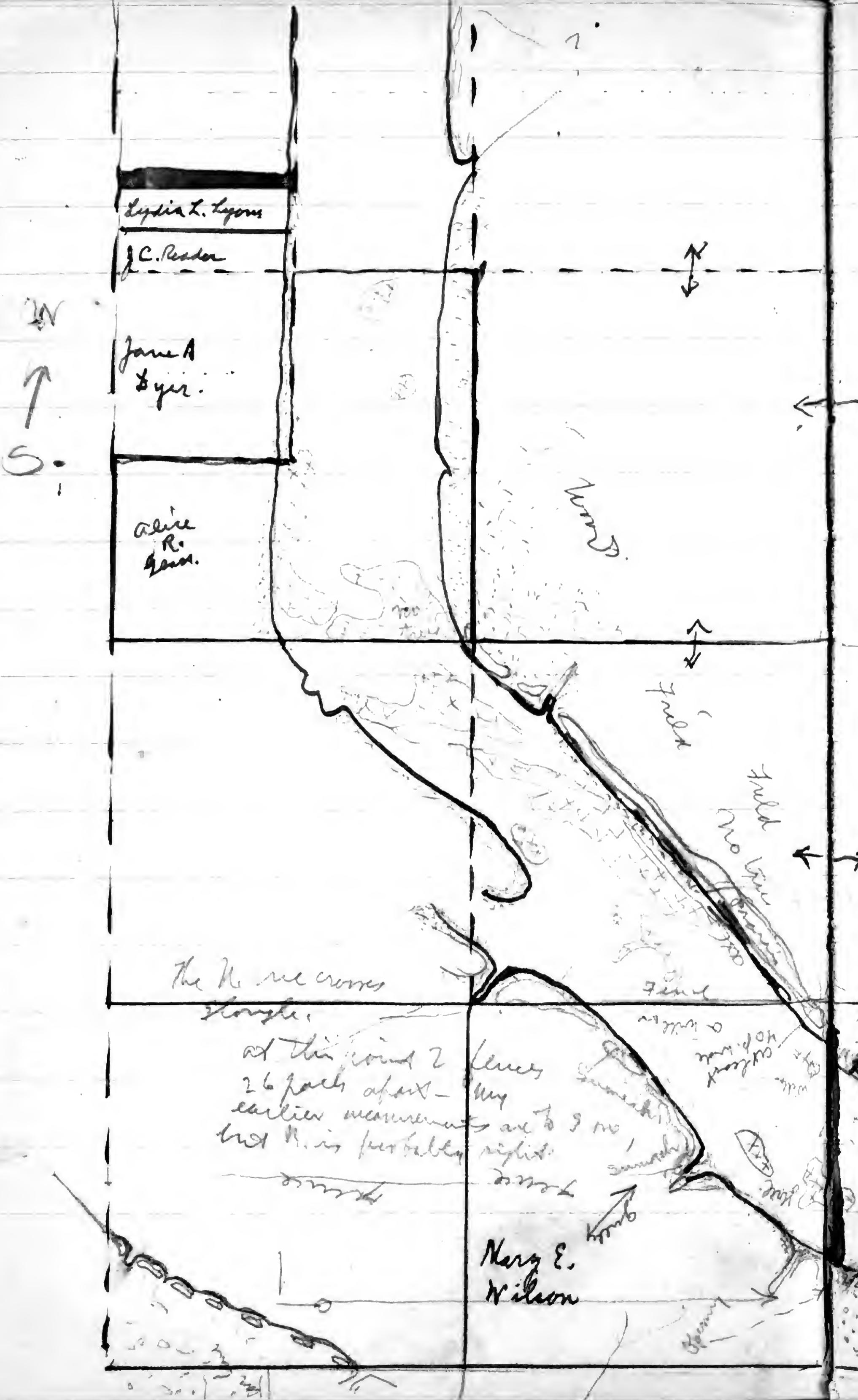
I would suggest, for the East side, at N. end, about 100 ft., a  $\frac{1}{2}$   $\times$   $\frac{1}{4}$  of rec. line, & then beginning opposite the N. line of Jane Dyas tract, or same  $\frac{1}{4}$  line to where it cuts Slough, thence S.E. at least 50 yrs. from top of bluff, to the Barney tract. Then 100 ft. to road.

Returned at 4<sup>30</sup> pm & took 5:30 bus for Clear Lake.

Spent evening in packing. Packed gun for Miss Covanda, & a basket for "the Herbarium".

Retired at 1 am.

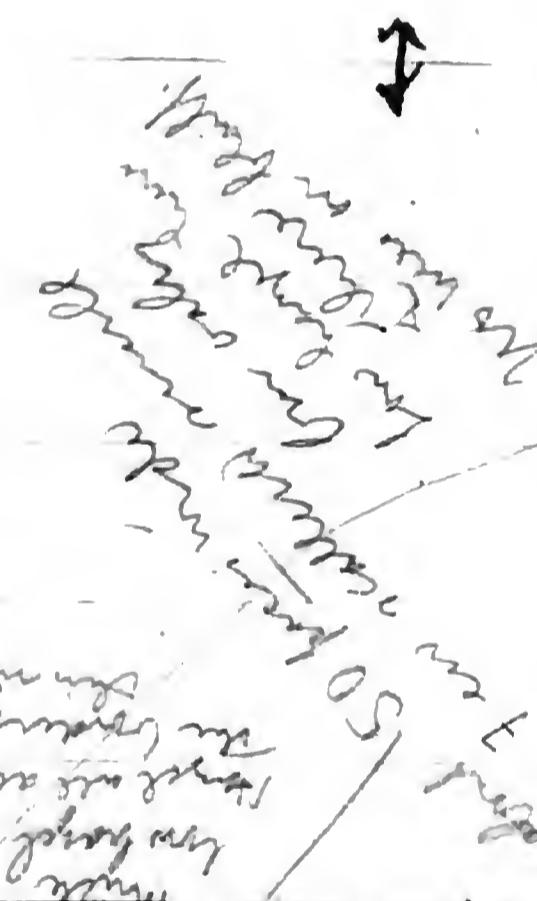
(The plots & notes on next 4 pages were made before this page was reached.)



\* = cut banks

The W. line of Wilson's cut  
at north at head of valley, but it  
is 8 paces W. of true line at N. end,  
the fence curving west.

Fred E. Keeler



These slopes are not  
abrupt, but no striking  
or distinct ledges.

McPherson  
Stephenson

Fred  
Barney

The SW. side shows only isolated bits of prairie 4-8 paces wide, & there over leaves mostly.

On W. side the prairie along air layer <sup>nearly</sup>  $\sqrt{40 \cdot 50}$  paces wide

On W. side practically all spring. are borders (or wreaths) with low hawthorn, & around clumps are in opening.

Much bar cat on W. side.

Also broad, yellow, bitter root, hawthorn,

Tower and N. f. Rose is crowded with Cat tails between me law & row.

S. of road the ground is almost dry.

The woods in E. part of Highlands are dense, largely bur oak, but some Q. ellipsoidalis. - The latter low, bushy, with hairy stiff dead branches remaining.

Toward Big Slough, in west E. of Highlands, there are a few white oaks, a good many basswoods, etc. This part of forest is more varied. See tree & plant lists of earlier days.

In the openings, especially on E. side, there were a good many bunches of leaves of *Ranunculus* *fascicularis* & *Anemone* *petiolaris* var., and a few *Viola pedatifida*. These all suggest spring.

This has been a dry season here, Joe says.

Sep. 13, 1921 - Tues. am  
Left Clear Lake at 6:54 for  
Milford. It is cloudy, & threatens  
rain.

Began to take notes w. of  
Lexton:

Kosuth co.:

- + Aster multiflorum fl. most common.
- + Solidago speciosa var. ang. fl.  
numerous fl.
- + rigidis fl.
- + canadensis fl. - rather old.
- + Helianthus grosseserratus fl.

(which is cut for hay -)

- + Amorpha canescens fl.
- + Aster laevis fl.  
(axillary) fl.
- + Agrostis capillaris fr.
- + Carex careyana fr.
- + Leontodon hispidus fr.
- + Kalmia angustifolia fr.
- + Spiranthes Michauxiana fl.

atgona - = + . and:

- Andropogon furcatus fr.  
(fine like marsh grass.) fr.
- Aster palustris canadensis fr.
- Lindernia pyrenaica fr.
- Ziziphora luteola fr.

Whitemore

*melilotus alba* - fl. & fr.  
*Solidago nitens*. fr.  
*Cirsium discolor* fr.  
*aster novae angliae* fl.  
*artemisia ludoviciana* fr.  
- *Vitis vulpina* fl.  
*Lithedrys capitata* fr.  
*Eryngium yuccifolium* fr.  
*Rudbeckia hirta* fl. (m)  
*Nilphammaranthus* fl. (m)  
*Agrostis lycentris* fr.  
*Helianthus maximiliani* fl.  
*Iliatris scariosa* fr.  
*Liatris pycnostachys* fr.  
*Petalostemum purpureum* fr.  
*Aster sericeus* fl.  
*Helianthus scaberrimus* fl.  
*Ova xanthophila* fr. (weed)  
*Helianthus annuus* fl. & fr.  
*Amelanchier alnifolia* fr. (evergreen)  
*Panicum virgatum* fr.  
(*Liatris pycnostachys* fl.)

Palo Alto co

- \* o + Asclepias speciosa sp.
- x o + Solidago rigidula fl. & fr.
- x o + " nemoralis fl.
- x o + " canadensis fl.
- x o + " speciosa longistylis fl.
- x o + Helianthus grosseserratus fl.
- x o + " scaberrimus fl.
- + Asclepias pulchra fl. & lf.
- (x) o + Silphium laciniatum fr.
- o + Oryzopsis hymenoides fr.
- x o + Aster multiflorus fl.
- x o + " laevis fl.
- x o + " ageratum fl.
- x o + " novae-angliae fl.
- x o + Liatris ligulistylis fr.
- (x) o + " scariosa fr.
- o + Amorpha canescens fr.
- x o + Andropogon furcatus fr.
- x o + " scoparius fr.
- x o + Elymus canadensis fr.
- + Spartina cynosuroides fr.
- x o + Cirsium discolor fr.
- x o Artemisia ludoviciana fr.
- Cylinder = + and:
- Oenothera biennis fl.
- \* o Brachyelymus angustifolius fr.
- o Vernonia virginica fr.
- o Lespedeza capitata fr.
- x o Knobelia eupatorioides fl.
- o Cirsium heterophyllum fl.
- Daphne odora fl.
- Holodiscus discolor fl.

Emmettsburg to Ruthven = 0 and:

- Vitis vulpina - sp.
- Vernonia fasciculata fr. (low)
- Sorghastrum nutans fr.
- Melilotis alba fl.
- Helianthus maximiliani fl.
- Lupinus perennis fl.
- Solidago canadensis olv fl.
- Ageratum lyratulum fr.
- Panicum virgatum fr.
- Oxybaphus rigidus - sp.
- Monarda mollis - fr.
- Desmodium canescens fr.
- Petalostemum pusillum fr.
- Sisyrinchium strictum subsp. (narrow fl.)
- Zizaniopsis (small) fl.
- Artemisia (diametridis) fr.

Clay co

Ruthven to Spencer = x and:

(Phragmites communis)  
apicinum (gracile)  
Mostly cut for hay)

Reached Wieford at noon (belated)

It was raining, & about 1 o'clock  
it poured for a while.

I went into the truck & found  
my old Liatris squarrula place

all cultivated, with no trace of  
the Liatris.

Collected other prairie (& two  
Aster & Boltonia from low places)  
plants along RR. & S.

Also several for sectioning  
(see "Kiefer" lot.)

Left for Spirit Lake at 4:22, &  
Spirit Lake for Ocheyedan at 6:25 AM.  
Put up at the little hotel.

Sept. 14, 1921, Wed.

Arose at 5:00 AM. Very wet &  
a heavy mist (drizzle). Got  
box of section material out.  
at 6:37 am

Started for the Mound. Roads  
are very slippery. A half  
mile east, at the turn S., a  
farmer took me in his Ford,  
clear to Mound, - a mile.

I found the Mound stripped  
bare by cattle. Picked up  
a few stunted remnants, *Amaranthus palmeri*, *Astragalus filiformis*,  
*Solidago viscidula*, *A. nemoralis*, *A. multiflora*, *A. sericea* (the two last  
most abundant), *Bontlema hispida*,  
*Andropogon furcatus*, *Castilleja pallida*  
(sp.), *Petalostemma pubescens*, *Salicornia herbacea*. (See Environ  
considering *Petrorhagia villosa*).

Saw a Burrowing owl - Its hole was near base  
on W. side of mound.  
*Aster sericeus* showed the very hairy (not velvety)  
root leaves.

Hurried back to train, down at  
8:37 a.m., for Granite.

Driously, foggy nasty weather!

Left at 8:47. - Between Delaney & Allard <sup>near</sup> ~~all~~  
city

Between Allard & Sibley, Osceola co.

Liatris ligulistylis fr.

Solidago canadensis fr.

Aster multiflorus fl.

Solidago nemoralis fl.

Dianthus integrifolius fr.

Aster laevis fl.

Andropogon furcatus fr.

Astragalus cicerinii fr.

Prenanthes apula fl. (rather br.)

Helianthus grosseserratus fl.

Scorzonera fr.

Solidago rigida fl. - old, mostly.

Ornithopus canescens fr.

Liatris scariosa fl. & fr.

Mitchella alba fr. some fl.

Heuchera maxima fl.

Solidago canadensis fl.

Aster novae-angliae fl.

Helianthus scabriusculus fl. (br.)

Cirsium discolor fr. fl.

Mark cut over.

Solidago speciosa var. ang. fl.

*Brassenia* <sup>annual</sup> fr.  
~~Sibley~~ - to coldine)

Ivaanthophila fr.

Eryngium yuccifolium fr.

Veronica missurica fl.

Baltonia albonervosa fl. (br.)

Apocynum cannabinum fl.

Lepidium lasiocarpum fr.

Praximene richardsonii fr. (low)

Astragalus canadensis fr.

Andropogon scoparius fr.

Prunellla vulgaris fl. (fr?)

Rosa pratincola fr.

Cirsium canescens - fr.

Petalostemum purpureum fr.

Leptidea sinuata fr.

*Aster novae-angliae* is not common  
all the way from Mason City it  
occurs just here & there in  
small clumps, - usually  
on rather lower grounds.  
*Aster multiflorus* & *A. laevis* seem  
to be the dominant forms.

Lyon co.

Little Rock to State line.

- x+ *Eva xanthiifolia* fr.
- x+ *Helianthus scaberrimus* fr.
- x+ " *grossularifolius* fl.
- x+ " *Maximilianii* fl.
- x+ *Solidago missouriensis* fl. + fr. very common
- ct " *menziesii*
- x+ " *canadensis* ab fl.
- + " *spermatophylla* v. *angustata* fl.
- x+ *Ambrosia trifida* fr. (rare)
- x+ " *artemisiifolia* fr. very com - waste  
+ *Ophioglossum canescens* fl.
- x+ *Aster multiflorus* fl.
- x+ " *laevis* fl.
- x+ *Petalostemum purpureum* fr.
- x+ *Dactylis glomerata* fr.
- x+ *Diarrhoea canina* fr.
- x+ " *Pyrenostachys* fr.
- x+ *Helicopis scabra* fl. (few)
- x+ *Oligosoma canadense* fr.
- x+ *Sparganium Michauxianum* fr. (1-2 ft. tall)
- x+ *Andropogon scoparius* fr.
- x+ " *furcatus* fr.
- x+ *Ashagahis canadensis* fr.
- x+ *Amorpha canescens* fr.
- x+ *Bromus tectorum* fr.
- x+ *Aster novae-angliae* fl. (low)
- " *Zygophyllum tenuipetiolatum* fr. (low)

East-Kamm

After leaving Ellsworth, - from State line

to Rock Rapids (Lyon co) = + and:

- o *Silphium laciniatum* fr.
- o *Lepidium pinnatifidum* fr.
- o *Cissus discolor* fl. (low)
- o *Chrysopilea comosa* fr. (low)
- o *Sieboldia pusilla* fr. (low)  
*Symplocarpus rotundifolius* fr.
- o *Trepocarpus capitata* fr.
- x+ o *Kobresia eupatoriumoides* var. fr.

Rock Rapids to Lester = o and:

- *Euphorbia Resinosa*
- *Polygonum virginianum* fl.
- x *Rosa pratincola* fr. (low)  
*Sisciastrum macrorhizum* fr. (low)
- *Polygonum alpinum* fl. fl.
- *Petalostemum candidum* fr.
- *Erigeron canadensis* fr.
- *Streptanthus lyricus* fr.  
*Monarda mollis* fl.

Lester to Larchwood = x and:

- *Helianthus annuus* fl. fr.
- *Oenothera serrulata* fl.
- *Polygonum sericeum* fl.
- *Asclepias syriaca* fl.

Larchwood to Granite g. and:

- *Mitchella alba* fl.
- *Dryopteris septentrio-* nensis fl.

Reached Granite at 11<sup>15</sup> AM.

Left a part of my baggage at the station, and walked to the Sioux?

Quartzite exposures in NW. corner of the state.

Stopped on the gravelly ridge 2 miles

W. of Granite (S. of creek) and collected  
*Artemesia frigida*, etc. Saw road  
for picking & sections. Collected a lot  
of plants.

Went on to E. & W. road about 1/2 mile  
(fractional section) S. of state line, & went  
west on this road to Big George River.  
A bridge here crosses, & a road leads  
along river to fine Quartzite.

I worked on the Quartzite area from  
1<sup>45</sup> P.M. to 4<sup>15</sup> P.M. Collected a lot of  
plants, & saved some for sections.

*Opuntia fragilis* and *Scleropodium* are  
very common. *Woodia sepincola* is  
showing a second crop of fruiting  
fronds. Not so abundant as once  
upon a time.

I found a few trees & shrubs right on  
the ledges:

*Fraxinus*  
*Tilia americana*  
*Acer negundo*  
*Brunnus virginiana*  
*Rubus occidentalis*  
*Quercus macrocarpa*

In the shade of these were a few  
timber plants. Also collected a few  
water plants <sup>or near</sup> in the pools.

Most of the plants are prairie  
plants scattered about in the  
crevices and between the blocks  
& ledges of Quartzite. Most of  
these plants were stunted.

I saw one *Vitis vulpina*, but it was  
just out of reach at Jasper Pool.  
The distinctly rock species were:

*Opuntia fragilis*      *Woodia sepincola*  
*Talinum*      *Polygonum tenue*<sup>11</sup>  
*Scleropodium implexifolium*  
*Asplenium platyneuron*

There were also several species usually found on gravelly, dry ridges, etc., such as:

*Chrysopis villosa*  
*Liatris punctata*

Lichens are very abundant, but I saw nothing new. The mosses are fresh but only <sup>one</sup> was beginning to fruit. It had been very dry, & the second abundant rains were too recent.

Lost my large pocket-knife.

It drizzled a little several times during day & evening, & was cloudy and cool all day.

I found that the Sioux Quartzite area is fenced in, but a gate at NW corner is wide open & it is evident that stock has been in.

The Opuntia grows with various elongated joints where crowded.

I then went E. to the old exposure E. of road. This is now all pasture, but much of the old flora persists in the crevices.

Collected a few plants on the prairie nearby, & a few on the rocks. Still saw *Opuntia* & *Salsifolia*. *Bouteloua ligulata* is very common here, as it is in the river exposure.

Returned at 6: <sup>15</sup> P.M. & had to wait alone, at a dark station, for the Sioux Falls train due at 9: <sup>55</sup> until about 11: <sup>35</sup>! A dreary, Charles waits! Flapped train with my flash lights.

Reached Sioux Falls after midnight & put up at the Catamount Hotel. <sup>2/1/01</sup>  
Packed section material, etc., & intend to

Sept. 15, 1921, Thursday.  
Was called at 5:45 am. & took the  
6:20 Milwaukee train for Westfield.  
It is still cloudy & somewhat drizzling,  
as yesterday.

Mr. E. O. Thorne was at station at Ahnapee  
& I got off, & we drove to  
Joy creek, - he and I, only.  
It has been raining recently  
and fungi were in good condition.  
We collected wood plants along  
the lower (O. E.) part of the valley,  
then went up on prairie hills.  
Collected a lot of plants.  
We also followed the valley

S. of Joy cr. & found many  
fungi, especially on cottonwood  
logs. We found ~~Leptosporidia~~.  
We found a coyote in a

trap. We were hard to it  
by occasional pitiful howls.  
In the evening Thorne returned  
with young Farmer to kill it.  
This Joy or river is one of  
the wonderful spots of Iowa. Its  
wooded valley set among high  
loess prairie hills form a  
remarkable picture, and a  
walk in the deep wooded  
valley gives one the impression  
of being in an endless forest.  
The fine clear stream, Joy  
cr., comes chiefly out of  
beds of gravel overlying  
a carbonaceous shale, and  
underlying Kansan drift. They  
are evidently Aftonian. In  
some places they show thin ls.

Thorson constructed a dam in lower part of valley & formed lake. This spring creek would certainly be a fine feeder for a lake.

This should be a state park.

During our walk up the creek valley, while in the woods, I also picked up a number of snails: *Phlyctea monodon*  
*Pyramidelus alternata*  
*Zonitoides aterans*,  
*Bifidaria eximia*  
" *contrasta*.  
all now recalled. See notes.

We returned in evening & loaded up with Thorson until 1:45 A.M. packing plants.

The day was cloudy, but no rain until very evening as we were coming into Akron.

Sept. 16, 1921, Friday.

I awoke at 7<sup>30</sup> and mailed my package of plants.

We drove out at 10<sup>15</sup> AM. Thorson & two other brothers. It drizzled a little as we started, but later cleared up, and the day was fine. The wind on the hills was strong.

We worked both mine & forest again, and I added fungi, especially.

Near upper part of main dry creek valley an alluvial bank of clayey stuff contained scattered shells. I dug in and found that they are not merely surface shells. The bank is now several feet off

above the present creek bed.  
I packed a basket of fungi,  
seeds & leaves, & went up and  
down above by express.

Jefferson, Mr., his opposite.  
The men say that there is there  
a large Catholic church &  
parochial school, and that the  
public school is reduced  
to a one room, one teacher  
insignificant affair.

This reminds me that at  
Milford young Dr. Smith told  
me that my high school com-  
address at Akron (June 3) did  
not please the local friends -  
a few days after at a parochial  
school function he sat beside a  
lady friend of the Doctor's,

and criticized my argument  
that at least during a part  
of its life every child should  
attend the public school.  
The lady and her family,  
however, being more liberal  
Catholics, favored my view!)

On the return to Akron  
I went at once to Station  
(after 6 PM) & packed &  
arranged to leave.

Left for Hawarden at 7:05<sup>on arrival</sup>  
& put up at the Gladstone  
Hotel. Went to bed  
early to prepare for  
leaving at 3:05 AM!

(Saw some fine Mertensias on  
the hill above Jay cr.)

Sep. 17, 1921 Sat.

Left Howard at 3:05 AM,  
for Miami Valley.

The sky is clouded, & it  
looks like rain.

Between California & Mo.  
Valley I noticed Helianthus  
Maximilian in good condition,  
flowering. Quite abundant.

Had Colver's jitney take me to  
Blair Bridge. The cost was \$3.50.

I found Lygodesmia rotundata, but  
well along, - mostly without lvs. &  
in fruit. Found one with  
pink flower. Grains are quite  
numerous, & Cassia chamaicta seems  
to warm everything, leaving the  
dunes less bare. Couchgrass is  
abundant and troublesome.

Returned a little after 11 AM.  
& went up on the prairie ridge  
above Smith's old brickyard (the  
big cut). I found the flora  
fair advanced, and everything was  
very dry. Aphlospappus is abundant  
and in fruit & flower. A good  
many Lygodesmia juncea  
had flowers, & seemingly a  
second set. Collected a lot of  
plants, some for sections.

Packed the section material &  
mailed it at Mo. Valley.

Left Mo. Valley at 3:05 for  
Carroll. On the way I  
arranged two packages of  
plants, and finished the  
box on arrival at Carroll.  
Had to hurry to get packed

of plants into the post office.  
Left Carroll via C. East Western for  
Botnia at 7<sup>28</sup> pm. (due at 7:13)

The roadside at Main Bridge  
show chiefly grasses & leguminous  
plants. Of the latter *Cassia* dom.  
is most prevalent. Saw also  
*Stephanotis paniculata*, *Crotalaria*  
*sagittata* (quite common; in fruit), also  
of Compositos: *Helenium annuum*,  
*Aldisia cordifolia*, *Lippodendron*  
*strigatum*, *Lactuca scanda*, *Lactuca* —,

Met Joe & Emma, and family &  
drove to Shavers.

Sep. 18, 1921. Sat.  
Wrote notes and visited. Afternoon  
we drove to Bowman's Grove  
(See map for course.). On the  
way noted particularly, the following:

Deep ravine woods  
In grove SW. cor. nr. 29 <sup>Polk Co.</sup> Hackberry, Elm,  
Elm, green ash, Pignut, Basswood,  
*Rhus glabra*, Cutleaf willow,  
*Rhus* spicile, Red Elm, Walnut,  
Corylus am., *Rhamnus* species,  
*Eryngium* sp., *Q. macrocarpa*  
*Ostrya* sp., *Cimicifuga* 5-ft., *Prunus* ssp.,  
Birch, Red cedar, *Vitis* sp.,  
Big Elder, *Xanthophyllum* —, —,  
*Prunus* spp., *Grapus asper* sp.,  
*Rhus* sp., *Toxodon*,  
*Ziziphus* am.,  
We drove around Bowman's  
Grove, and went in from

the south. Hogs and cattle have cleared the ground of smaller plants, but the logs showed fungi and slime-molds. I collected some from an Ash log and several Basswood logs.

We returned after dark. The day was clear and beautiful, and gave little promise of the rain that came at night, excepting for the fact that the wind was from the east.

Took care of material and visited a little in the evening

Sept. 19, 1921 Monday.  
Had planned to drive to Audubon co., but it was raining, and rained most of the forenoon.

I wrote notes most of the day, and cared for slime-molds, etc. Wrote also all evening, putting my Audubon and Shelby notes in order.

Sept. 20, 1921 Tues.  
We started for Audubon co. at 9<sup>45</sup> am. The notes on this trip are in another note-book.

21  
16  
14  
5

Oct. 5, 1921, Wed. 9:05

Left for Braggs at 8:30 AM.

A beautiful, clear day, with  
a fair breeze from the S.E.

A real frost came last night  
(there was one the night before), but  
very little damage has yet been done.

Below Hills, where RR right of  
way has been cultivated the  
surface rough & weeds have  
grown.

The drainage ditches both  
W. & E. of Nichols have  
their embankments, etc. one  
mass of noxious weeds - Ragweed  
dominant.

Dropped off at Cedar river bridge.

Collected in the *Opuntia*  
sandy opening. Saw here a *Ptelea*

12  
29  
4

*trifolia* in fr.

Collected a few plants on the  
nearly prairie along RR, E.  
of bridge, & cut toward  
sandy bank and *Hibiscus*  
bog. Collected *hamamelis* fungi,  
rotten material, etc. In the  
sandy woods at *Hibiscus*  
bog I collected *Cathartes*.  
There are three lots: the top  
lot (this will be ruined) is from  
sandy bank above the first  
spring; the second is in  
open sandy wood at edge  
of swamp, beyond *Hibiscus*  
bog, & the 3<sup>rd</sup> is from wood  
sandbank near the fence  
(near bog in which *Equisetum*  
*variegatum* grows.)

I also collected Liptotoma on the sandy ridge (old place) & also in sand dunes E. of Shunk cabbage bog. Collected leaves & acorns of one Quercus or sandy bank above Shunk cabbage bog. Also leaves fr. of Mockers nut. Several are in sight.

Collected Vicia strands f. angustifolia and V. atropurpurea, on same sandy bank.

Collected nut on Panicum virgatum.

Reckoned Payoffs at 6 pm & left for Muscatine at 6:40 pm.

Went to Hotel Muscatine.

Oct. 6, 1921 - Thurs.

Left Muscatine for Franklin at 7:25 am. Walked to Sand Mtn., to private road  $\frac{1}{2}$  S. of cabin, into Linn Co. My sandy prairie slope S. of this half mile line is now largely covered with Asteromyces capidium (?) (see spec.) It has either been pastured or cultivated.

Almost everything is dry & gone. Few asters.

I went E. to the large sand-grass patch, & then worked the slope (in Linn Co.) of the sand mound.

I found my Physotegia mostly in fruit (but flowering) & a number of the greener plants showed a varnish

fungi on calyx and leaves.

In many cases the fungus  
erupted first on the calyx, the  
others being still under epidermis.

Found a few *Latia cylindrica*  
in fr.; *Fragaria*, *L. scariosa*,  
*Kuhnia*, - in fact most things  
were in fruit.

I walked back to Frostland,  
collecting *Helianthus petiolaris* (both  
fls. & fr.) and *Astrophyton Smithii*  
(old fr.).

After I waited about for a  
time a truck-driver took me  
to Muscatine ( $4\frac{45}{50}$  mi.). I left  
at 7:45 for Davenport, & thence  
to Iowa City.

## Suggestions.

Many plants make provision for growth by shedding leaves. Is the stem then protected?

*Lygodesmia*

*Cyclodium*

*Aster multiflorus*

*Spiraea spathacea*

Striated plants, <sup>of species</sup> not belonging to a  
xerophytic area may appear upon it  
here & there. - some protection.

Or, during very favorable seasons,  
something occurs.

Problems - those which have to do  
with factors which influence  
plant growth.

Cultivated plants influenced as  
native plants.

Prairie - -  
Fires - openings -

*Q. v. depressa*

*Dalea canescens*

" *alopecuroides*

*Chrysopsis*

*Grindelia*

*Cypripedium*

*Cacalia*

*Iris*

*Habenaria*

*Sporobolus cryptandrus*

"  
*Panicum*

"  
*Isanthus*

*Crotalaria*

*Yucca*

*Mentzelia*

*Oxytropis*

*Astragalus canescens*

"  
*Tenella*

*Opuntia*

*Woodia*

*Polygonum douglasii*

" " *temne*

*Eryngium junceum*

" *rostrata*

*Agoseris*

*Lerardia aspera*

" *annulata*

*Houstonia angustifl.*

*Braunera*

*aristata basiramea*

*Ranunculus rhombif.*

Sep. 9, 1921 - Lyle to Mason City - (no tax) 1.06  
 " " " with tax 1.14  
 Mason City - stamps <sup>50</sup> RR. to Clear Lake <sup>70</sup> 1.20  
 Sep. 10, 1921 - Mason City & return .70  
 Zooth - books & parts .90  
 Sep. 11, 1921 - Mason City & return .70  
 Carfare <sup>20</sup>, lunch & breakfast <sup>12</sup> gum <sup>10</sup> .92  
 Box Candy Soda <sup>1.50</sup> <sub>10</sub> 1.60  
 Sep. 12, 1921 - Carfare <sup>35</sup> <sub>51</sub>, lunch, carfare <sup>20</sup> 1.06  
 2 baskets <sup>30</sup>, fruit <sup>1.05</sup>, soda <sup>20</sup> 1.55  
 Parcel <sup>15</sup>, twine <sup>40</sup>, bus to Clear Lake <sup>25</sup> .80  
 Sep. 13, 1921 - RR. fare, Clear Lake to Milford, <sup>(no tax)</sup> 3.75  
 Dinner Milford <sup>58</sup> <sub>meat 25</sub>, gum <sup>15</sup> 4.00  
 RR. to Spirit Lake - (no tax) 2.7  
 RR. to Odreychan (no tax) .82  
 supper " breakfast <sup>35</sup> lunch <sup>10</sup> <sub>2 meals</sub> .35  
 Sep. 14 - Room <sup>75</sup> breakfast <sup>35</sup> lunch <sup>10</sup> <sub>2 meals</sub> 1.70  
 RR. to Granite 2.12  
 RR. to Sioux Falls .48  
 Taxi " " .50  
 Sep. 15 - Breakfast <sup>15</sup> <sub>taxi</sub> <sup>50</sup> Catcart Hotel <sup>1.75</sup> 2.40  
 RR. to Westfield (no tax) 2.31  
 Sep. 16 - Postage, package of plants, attorney <sup>50</sup> .37  
 Lunch <sup>30</sup> basket <sup>20</sup>, Thorsoe child 1.00  
 Lunch <sup>25</sup> <sub>expensive basket</sub> <sup>62</sup> gum <sup>10</sup> .97  
 RR. to Howardden (no tax) .47  
 Taxi - " .50  
 Sep. 17 - Hotel Gladstone <sup>4</sup> 1.50  
 RR. to Missouri Valley (no tax) 4.30  
 RR. to Carroll (Goliad, no tax) 2.56  
 Dunes Inn Restaurant, <sup>45</sup> <sub>28</sub> soda <sup>20</sup> paper <sup>10</sup> .83  
 E. C. Colver, living to Blair Bridge 3.50  
 Lunch <sup>15</sup>, meal <sup>18</sup> <sub>12</sub> .45

55 <sup>29</sup>  
 22 <sup>12</sup>  
 71 <sup>36</sup>  
 26 <sup>26</sup>  
 147 <sup>6</sup>  
 Schmidt's restaurant  
 RR. Carroll to Botwin (Goliad, no tax) .81  
 Portage - Carroll (plants) <sup>25</sup> lunch <sup>25</sup> .40  
 Candy for children <sup>75</sup> soda <sup>10</sup> .85

Bayfield Ile. Oct. 5, 1921  
 RR. to Bayfield (no tax) \$1.19  
 Lunch (dr. g.) .45  
 RR. to Muscatine .28  
 Oct. 6 - Hotel Muscatine, room 1.75  
 Breakfast <sup>35</sup> lunch <sup>50</sup> <sub>(2)</sub> .80  
 RR. to Franklin .23  
 RR. to Muscatine .23  
 RR. to Davenport (no tax) .99  
 RR. to Davenport ( " ) 1.95  
 Taxi - Davenport .50

Brauneria - Mo. Valley 9/17  
Artemisia frigida Granite 9/14 1921  
Aceratia  
Agropyron tenerum  
Agrostis alba var.  
Allium stellatum Milford 9/13 1921  
Andropogon scoparius  
" orisetus Mo. Valley 9/17  
Anemone patens var. Big Slough 9/11 1921  
Asclepias sullivantii Milford 9/13 1921  
verticillata " 9/13 1921  
Aplopappus 207 m. 9/16 Mo. Valley 9/17  
Aster ptarmicoides Granite 9/14  
oblongistylis - Big Slough 9/11 1921 9/13  
Bouteloua hirsuta  
" ciliopendula 207 m. 9/16  
" oligostachya Granite 9/14 1921  
Camassia rotundifolia - Hesper 9/18 1911  
Carex  
" Geocaulon ovatum tuberosum Mo. Valley 9/17  
" - McGregor, 9/7 1921  
Cissum canescens Granite 9/14  
Coreopsis palmata  
Corydalis  
Crotalaria Blue Grose 9/17

Houstonia angustifolia - Mo. Valley 9/17  
Chrysopsis ?(broad-leaved) Granite 9/14  
Chrysopsis villosa Granite 9/14  
Dalea - from Mo. Valley  
Delphinium "  
Elymus  
Erythronium mesochorenum  
Euphorbia - mainly west - Plains to 9/17  
Euphorbia marginata Jep. ex. 9/15  
" heterophylla Plains to 9/17  
Galium boreale  
Gaultheria esinora - McGregor, Sep. 7, 1921  
Gentiana alba  
" andrewsii  
" pulchella Granite 9/14  
Gentiana aspera Granite 9/14  
Helianthus annuus Mo. Valley 9/17 Milford, 9/13 1921  
Helianthus maximiliani  
Isanthus caeruleus - Big Slough - 9/11 1921  
Liatris cylindracea  
" punctata Granite 9/14 1921  
" squarrosa  
Leopoldia leptostachya Milford 9/13 1921  
Lythrum venosus  
" palustris Milford, 9/13 1921  
Liatris punctata Mo. Valley 9/17

*Lycopodium junceum* Mo. Valley 9/17  
" *votrata* Blair br. 9/17.

*Lycopodium columbianum* Granite 9/14

*Lilium philadelphicum*

*Linum*

*Lithospermum angustifolium* - Big Slough 9/11 1921

"

*Lobelia*

*Oenothera serrulata* Big Slough 9/11 1921

*Oenothera versicolor* - Big Slough 9/11 1921

*Oxytropis Lambertii* Granite 9/14 1921

*Panicum*

"  
*Pentstemon* <sup>grulis?</sup> granite 9/4

*Physalis*

*Poa*

*Polygala*

*Potentilla tridentata* Kesper 9/8 1921

"

"

*Pronanthes*

"  
*Prunus pensylvanica* - Kesper 9/8 1921

*Symplocarpus occidentalis* Mo. Valley 9/17

*Polygonum Douglasii* - Kesper, 9/8 1921

" *tenue* - Kesper, 9/8 1921.

*Ranunculus fascicularis* - Big Slough, 9/11 1921

*Solidago speciosa* vs. *angustifolia* Milford 9/13 1921

" *Missouriensis* Milford 9/13 1921

" *lanceolata* Milford 9/13 1921

*Sorghastrum nutans* Mo. Valley 9/17

*Spartina*

*Spiranthes* - Big Slough 9/11 1921

*Lephkoria*

*Talinum* - Granite 9/14 1921

*Verbesina*

"

*Vernonia novaeboemia* Mo. Valley 9/17

*Vicia*

"

*Viola*

*Woodia scopulina* Granite 9/14

*Zygadenus*

Grass 1 - Kesper - H.P. 35 - Large, sharp-pointed  
1, 2 - " " fine. and H.P. valley  
Rush 3 - " " - Juniper.

Grass 4 - (fine tipped) - Big Slough - 9/11 1921

Grass 5 (coarse) - Granite 9/14

" 6 (fine, long pointed) - Blair br. 9/17  
" 7 - like fine grass - Ditch bottom 9/17

Mc Gregor School of Wild Geese  
Program - 1921

Sunday, Aug. 7.

2:00 P.M. - Address: Rev. J. L. Murray, cedar response to welcome by <sup>Refugee</sup> <sup>monk</sup> <sup>water</sup> <sup>shrub</sup>.  
8:00 P.M. - Address: Prof. S. W. Stookey. <sup>nature's</sup> <sup>fascinating</sup> Appeal.  
Dr. H. C. Oberholser, "Economic Value of Bird Life,"

Monday, Aug. 8.

10:30 - Address, Dean Kay.  
2:00 - General Excursion to Lookout.  
8:00 -

Tues., Aug. 9 - Government Day,  
Oberholser, <sup>R.L.</sup> Barney, <sup>Fairholme, D.C.</sup> Director, Harlan, Kay  
and McDonald talked.

8:00 - Film - Niagara Falls.

Wed., Aug. 10.

9:30 - Kayes, Shireek (Oak system)  
2:00 - Pike's Peak, all.  
8:00 - Stookey, Weeks.

Thurs., Aug. 11.

A. M. & P.M. Kodak day.  
8:00 - Oberholser,

Fri., Aug. 12

9:30 - Weeks, Kayes.  
2:00 - Special Excursions.  
8:00 - <sup>Fungi</sup> Stookey, Shireek (<sup>Possible work</sup> here - illust.)

Sat., Aug. 13.

8:30 - Trip to Clayton.  
3:00 P.M. - Oberholser, Kayes.  
8:00 P.M. - Bennett. Mc Gregor do

Sun. Aug. 14.

12:30 - Picnic luncheon.  
1:30 - Kay "the Contribution of Ecology to Religious Thought."  
8:00 - Shireek - Trees, shrubs, etc.

Mon. Aug. 15.

9:30 - Kay.  
2:00 - Pike's Peak.  
8:00 - Shireek, Kay - Antiquity of Man.  
<sup>Plant Habits</sup>

Tues. Aug. 16.  
9:30 - Weeks, Shireek (Common names)  
2:00 - McDonald, Shireek (Compositae)  
8:00 - Shireek, Bennett.

Wednesday, Aug. 17.

9:30 - Weeks, Keyes.

2:00 - Special excursions

8:00 - Oberholser, Shimek (Prairie)

Thursday, Aug. 18.

9:30 - Oberholser, Weeks.

2:00 - Special excursions.

8:00 - Keyes. — Business men dinner.

Friday, Aug. 19

9:30 - Round-up.

2:00 - Special excursions.

Evening - Community picnic.

Mounds at Okoboji. —

1 - On the ridge in the Big Loop of  
the Little Sioux.

2 - At Arnold Park - E. of road  
across Kinnawas. Mr. Hazard's garden.

3 - On point, or peninsula, on E. side  
between Middle & Lower Gar Lake.

4 - At Orleans.

(Continued)

Prairie openings above No. McGregor.

*Amaranthus canescens*

*Achillea millefolium*

*Asclepias*

Hill No. 6 No. McGregor.

*Populus tremuloides*

*Prunus virginiana*

*Acer saccharum* *Pediasia quinquefolia*

*Betula alba v. papyrifera* *Physocarpus opulifolius*<sup>var.</sup>

*Garrya ovata* *Quercus rubra*

" *cordiformis* " *alba*

*Boraginosa americana* " *Muhlenbergia*

*Cornus paniculata* " *macrocarpa*

*Crataegus mollis* *Ribes cynosbati*

" *prunifolia* " *gracile*

" " *tomentosa* " *Rhus glabra*

*Fraxinus pem. v. lanceolata* " *typhina*

" *nigra* " *toxicodendron*

*Hydrangea arborescens* *Rubus idaeus v. aculeatissimus*

*Juglans cinerea* " *occidentalis*

" *sigra* " *alleghenensis*

*Salix discolor*

*Sambucus*

*Tilia americana*

*Ulmus fulva*

*Viburnum dentatum*

*Vitis vulpina*

*Xanthoglossum americanum*

*Menispermum canadense*

*Ostrya virginiana*

Low ground along river 8/4/1907

*Salix longifolia*

" *nigra*

" *americana*

*Populus deltoides*

*Acer saccharinum*

" *negundo*

*Sambucus canadensis*

*Amorpha fruticosa*

1920.

Plants on St. Peter I. S. opening - on right

*Andropogon furcatus*

" *scoparius*

*Aster oblongifolius*

*Arabis canadensis*

*Agrostis alba* var.

*Rudbeckia syriaca*

" *verticillata* *Lactuca canadensis*

*Asparagus officinalis* *Liatris scariosa*

*Ambrosia artemisiifolia* *Melilotus albus*

*Apocynum androsaemifolium* *Petalostemum purpureum*

*Bontelona carthependula* *Phlox pilosa*

*Comandra umbellata*

*Pycnanthemum*

*Desmodium canadense*

*Physalis pubescens*

*Eupatorium altissimum*

*Quercus macrocarpa* { under  
" *Mitchella repens* }

*Euphorbia corollata*

" *Mitchella repens* }

*Elymus canadensis*

*Rosa*

*Eriogonum ramosus*

*Rhus glabra*

*Galium boreale*

*Sorghastrum nutans*

*Solidago nemoralis*

*Steironemus ciliata*

*Sisymbrium canescens*  
<sup>(lost)</sup>

*Vitis vulpina*

*Viola peduncularis*?

*Veronica virginica*

|       | meals night |   |
|-------|-------------|---|
| Mon.  | \$          | 1 |
| Tues. | 11          | 1 |
| Wed.  | 11          | 1 |
| Thur. | 1           | 3 |
|       | 6           |   |

L. Blizzard - wants formula

for killing Canadian Thistle

| Expense to Dyerville, McGregor Ia         |      |  |
|---|------|--|
| Sep. 3 - Parcels post to Clayton (bus)    | .14  |  |
| " " " Stacyville                          | .15  |  |
| Express (air mail & bag) to McGregor      | 1.18 |  |
| .. (bus) to Mason City                    | .61  |  |
| Taxi, Mason City                          | .35  |  |
| RR. to Cedar Rapids (not tax)             | .96  |  |
| Lunch "                                   | .75  |  |
| RR. to Delaware (not tax)                 | 2.09 |  |
| RR. Delaware to Dyerville (not tax)       | 4.2  |  |
| Sep. 4 - Dyerville House room             | 1.25 |  |
| Wesley Welch drive to Dyerville           | 3.00 |  |
| Sep. 5 " Hotel" Millville 2 meals bus     | 1.00 |  |
| RR. Dyerville to Clayton (bus)            | .65  |  |
| Lunch, Clayton                            | .47  |  |
| Boyz, Clayton                             | .10  |  |
| RR. Clayton to McGregor                   | .33  |  |
| Sodas                                     | .15  |  |
| Lunch .35 sodas .15                       | .50  |  |
| Rising mrs .75 Barber .25                 | 1.00 |  |
| Papers                                    | .10  |  |
| Sep. 7 - Lunch .40 sodas .15              | .55  |  |
| Repair shoes .60 twine .10                | .70  |  |
| Parcels post (2)                          | .48  |  |
| Sep. 8 - Scenic Hotel, 3 nights & 6 meals | 7.50 |  |
| Expenses basket & L.M.C.                  | .55  |  |
| RR. to Decorah (no tax)                   | 2.03 |  |
| Wm. Noccker, auto to Decorah              | 5.00 |  |
| Lunch                                     | .25  |  |
| RR. to Charles City (no tax.)             | 2.16 |  |
| Transfers 25 cents                        | .55  |  |
| RR. to Stacyville                         | 1.45 |  |



